Form

Unknown document format

ll be linked to the lesser performing of the four Reference Stocks. Even if the Final Stock Prices of the other Reference Stocks have increased compared to their respective Initial Stock Prices, or have experienced a decrease that is less than that of the Lesser Performing Reference Stock, your return will only be determined by reference to the performance of the Lesser Performing Reference Stock, regardless of the performance of the other Reference Stocks. Because each Reference Stock Issuer operates in the technology industry, they may each experience simultaneous and significant declines due to adverse conditions in that industry.

- Your Payment on the Notes Will Be Determined by Reference to Each Reference Stock Individually, Not to a Basket, and the Payment at Maturity Will Be Based on the Performance of the Lesser Performing Reference Stock — The Payment at Maturity will be determined only by reference to the performance of the Lesser Performing Reference Stock, regardless of the performance of the other Reference Stocks. The Notes are not linked to a weighted basket, in which the risk may be mitigated and diversified among each of the basket components. For example, in the case of notes linked to a weighted basket, the return would depend on the weighted aggregate performance of the basket components reflected as the basket return. As a result, the depreciation of one basket component could be mitigated by the appreciation of the other basket components, as scaled by the weighting of that basket component. However, in the case of the Notes, the individual performance of each of the Reference Stocks would not be combined, and the depreciation of one Reference Stock would not be mitigated by any appreciation of the other Reference Stocks. Instead, your return will depend solely on the Final Stock Price of the Lesser Performing Reference Stock.
- The Call Feature and the Contingent Coupon Feature Limit Your Potential Return — The return potential of the Notes is limited to the pre-specified Contingent Coupon Rate, regardless of the appreciation of the Reference Stocks. In addition, the total return on the Notes will vary based on the number of Observation Dates on which the Contingent Coupon becomes payable prior to maturity or an automatic call. Further, if the Notes are called due to the Call Feature, you will not receive any Contingent Coupons or any other payment in respect of any Observation Dates after the applicable Call Settlement Date. Since the Notes could be called as early as March 14, 2019, the total return on the Notes could be minimal. If the Notes are not

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

called, you may be subject to the full downside performance of the Lesser Performing Reference Stock even though your potential return is limited to the Contingent Coupon Rate. As a result, the return on an investment in the Notes could be less than the return on a direct investment in the Reference Stocks.

- Your Return May Be Lower than the Return on a Conventional Debt Security of Comparable Maturity — The return that you will receive on the Notes, which could be negative, may be less than the return you could earn on other investments. Even if your return is positive, your return may be less than the return you would earn if you bought a conventional senior interest bearing debt security of Royal Bank.
- Payments on the Notes Are Subject to Our Credit Risk, and Changes in Our Credit Ratings Are Expected to Affect the Market Value of the Notes — The Notes are Royal Bank's senior unsecured debt securities. As a result, your receipt of any Contingent Coupons, if payable, and the amount due on any relevant payment date is dependent upon Royal Bank's ability to repay its obligations on the applicable payment dates. This will be the case even if the prices of the Reference Stocks increase after the Trade Date. No assurance can be given as to what our financial condition will be during the term of the Notes.
- The Notes Will Be Subject to Risks, Including Non-Payment In Full, Under Canadian Bank Resolution Powers — Under Canadian bank resolution powers, the Canada Deposit Insurance Corporation ("CDIC") may, in circumstances where we have ceased, or are about to cease, to be viable, assume temporary control or ownership of us and may be granted broad powers by one or more orders of the Governor in Council (Canada), each of which we refer to as an "order," including the power to sell or dispose of all or a part of our assets, and the power to carry out or cause us to carry out a transaction or a series of transactions the purpose of which is to restructure our business. As part of the Canadian bank resolution powers, certain provisions of and regulations under the Bank Act (Canada) (the "Bank Act"), the Canada Deposit Insurance Corporation Act (the "CDIC Act") and certain other Canadian federal statutes pertaining to banks, which we refer to collectively as the "bail-in regime," provide for a bank recapitalization regime for banks designated by the Superintendent of Financial Institutions (Canada) (the "Superintendent") as domestic systemically important banks, which include us.

If the CDIC were to take action under the Canadian bank resolution powers with respect to us, this could result in losses to holders of the Notes. As a result, you should consider the risk that you may lose all of your investment, including the principal amount of the Notes, if the CDIC were to take action under the Canadian bank resolution powers, and that any remaining outstanding Notes, may be of little value upon exercise of any of these powers.

- The Circumstances Surrounding the Exercise of the Canadian Bank Resolution Powers Are Unpredictable and Can Be Expected to Have an Adverse Effect on the Notes — The decision as to whether we have ceased, or are about to cease, to be viable is a subjective determination by the Superintendent that is outside our control. There is no limitation on the type of order that may be made where it has been determined that we have ceased, or are about to cease, to be viable. As a result, you may be exposed to losses through the use of Canadian bank resolution powers other in liquidation.
- The Indenture Provides Only Limited Acceleration and Enforcement Rights for the Notes — Our Indenture under which the Notes will be issued provides that acceleration will only be permitted (a) if we default in the payment of the principal or interest on the Notes, and the default continues for a period of 30 business days, or (b) certain bankruptcy, insolvency or reorganization events occur.
- There May Not Be an Active Trading Market for the Notes-Sales in the Secondary Market May Result in Significant Losses — There may be little or no secondary market for the Notes. The Notes will not be listed on any securities exchange. RBCCM and other affiliates of Royal Bank may make a market for the Notes; however, they are not required to do so. RBCCM or any other affiliate of Royal Bank may stop any market-making activities at any time. Even if a secondary market for the Notes develops, it may not provide significant liquidity or trade at prices advantageous to you. We expect that transaction costs in any

secondary market would be high. As a result, the difference between bid and asked prices for your Notes in any secondary market could be substantial.

- The Initial Estimated Value of the Notes Is Less than the Price to the Public — The initial estimated value set forth on the cover page of this pricing supplement does not represent a minimum price at which we, RBCCM or any of our affiliates would be willing to purchase the Notes in any secondary market (if any exists) at any time. If you attempt to sell the Notes prior to maturity, their market value may be lower than the price you paid for them and the initial estimated value. This is due to, among other things, changes in the prices of the Reference Stocks, the borrowing rate we pay to issue securities of this kind, and the

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

inclusion in the price to the public of the underwriting discount and the estimated costs relating to our hedging of the Notes. These factors, together with various credit, market and economic factors over the term of the Notes, are expected to reduce the price at which you may be able to sell the Notes in any secondary market and will affect the value of the Notes in complex and unpredictable ways. Assuming no change in market conditions or any other relevant factors, the price, if any, at which you may be able to sell your Notes prior to maturity may be less than your original purchase price, as any such sale price would not be expected to include the underwriting discount and the hedging costs relating to the Notes. In addition to bid-ask spreads, the value of the Notes determined by RBCCM for any secondary market price is expected to be based on the secondary rate rather than the internal funding rate used to price the Notes and determine the initial estimated value. As a result, the secondary price will be less than if the internal funding rate was used. The Notes are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your Notes to maturity.

- The Initial Estimated Value of the Notes on the Cover Page of this Pricing Supplement Is an Estimate Only, Calculated as of the Time the Terms of the Notes Were Set — The initial estimated value of the Notes is based on the value of our obligation to make the payments on the Notes, together with the mid-market value of the derivative embedded in the terms of the Notes. See “Structuring the Notes” below. Our estimate is based on a variety of assumptions, including our credit spreads, expectations as to dividends, interest rates and volatility, and the expected term of the Notes. These assumptions are based on certain forecasts about future events, which may prove to be incorrect. Other entities may value the Notes or similar securities at a price that is significantly different than we do.

The value of the Notes at any time after the Trade Date will vary based on many factors, including changes in market conditions, and cannot be predicted with accuracy. As a result, the actual value you would receive if you sold the Notes in any secondary market, if any, should be expected to differ materially from the initial estimated value of your Notes.

- Market Disruption Events and Adjustments — The payment at maturity, each Observation Date and the Valuation Date are subject to adjustment as described in the product prospectus supplement. For a description of what constitutes a market disruption event as well as the consequences of that market disruption event, see “General Terms of the Notes—Market Disruption Events” in the product prospectus supplement.
- Our Business Activities May Create Conflicts of Interest — We and our affiliates expect to engage in trading activities related to the Reference Stocks that are not for the account of holders of the Notes or on their behalf. These trading activities may present a conflict between the holders’ interests in the Notes and the interests we and our affiliates will have in their proprietary accounts, in facilitating transactions, including options and other derivatives transactions, for their customers and in accounts under their management. These trading activities, if they influence the share price of the Reference Stocks, could be adverse to the interests of the holders of the Notes. We and one or more of our affiliates may, at present or in the future, engage in business with the Reference Stock Issuers, including making loans to or providing advisory services. These services could include investment banking and merger and acquisition advisory services. These activities may present a conflict between our or one or more of our affiliates’ obligations and your interests as a holder of the Notes. Moreover, we and our affiliates may have published, and in the future expect to publish, research reports with respect to the Reference Stocks. This research is modified from time to time without notice and may express opinions or provide recommendations that are inconsistent with purchasing or holding the Notes. Any of these activities by us or one or more of our affiliates may affect the share price of the Reference Stocks, and, therefore, the market value of the Notes.
- Owning the Notes Is Not the Same as Owning the Reference Stocks — The return on your Notes is unlikely to reflect the return you would realize if you actually owned shares of the Reference Stocks. For instance, you will not receive or be entitled to receive any dividend payments or other distributions on these securities during the term of your Notes. As an owner of the Notes, you will not have voting rights or any other rights that holders of these securities

may have. Furthermore, the Reference Stocks may appreciate substantially during the term of the Notes, while your potential return will be limited to the applicable Contingent Coupon payments.

- You Must Rely on Your Own Evaluation of the Merits of an Investment Linked to the Reference Stocks — In the ordinary course of their business, our affiliates may have expressed views on expected movements in the Reference Stocks, and may do so in the future. These views or reports may be communicated to our clients and clients of our affiliates. However, these views are subject to change from time to time. Moreover, other professionals who transact business in markets relating to any Reference Stock may at any time have significantly different views from those of our affiliates. For these reasons, you are encouraged to derive information concerning the Reference Stocks from multiple sources, and you should not rely solely on views expressed by our affiliates.

- There Is No Affiliation Between the Reference Stock Issuers and RBCCM, and RBCCM Is Not Responsible for any Disclosure by the Reference Stock Issuers — We are not affiliated with the Reference Stock Issuers. However, we and our affiliates may currently, or from time to time in the future engage, in business with any Reference Stock Issuer. Nevertheless, neither we nor our affiliates assume any responsibilities for the accuracy or the completeness of any information that any other company prepares. You, as an investor in the Notes, should make your own investigation into the Reference Stocks.

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

INFORMATION REGARDING THE REFERENCE STOCK ISSUERS

The Reference Stocks are registered under the Securities Exchange Act of 1934 (the “Exchange Act”). Companies with securities registered under that Act are required to file periodically certain financial and other information specified by the SEC. Information provided to or filed with the SEC can be inspected and copied at the public reference facilities maintained by the SEC or through the SEC’s website at www.sec.gov. In addition, information regarding the Reference Stocks may be obtained from other sources including, but not limited to, press releases, newspaper articles and other publicly disseminated documents.

The following information regarding the Reference Stock Issuers is derived from publicly available information.

We have not independently verified the accuracy or completeness of reports filed by the Reference Stock Issuers with the SEC, information published by it on its website or in any other format, information about it obtained from any other source or the information provided below.

We obtained the information regarding the historical performance of the Reference Stocks set forth below from Bloomberg Financial Markets.

We have not independently verified the accuracy or completeness of the information obtained from Bloomberg Financial Markets. The historical performance of the Reference Stocks should not be taken as an indication of their future performance, and no assurance can be given as to the market prices of any Reference Stock at any time during the term of the Notes. We cannot give you assurance that the performance of any Reference Stock will not result in the loss of all or part of your investment.

Amazon.com, Inc. (“AMZN”)

Amazon.com, Inc. is an online retailer that offers a wide range of products, including: books, music, videotapes, computers, electronics, home and garden, and numerous other products. The company offers personalized shopping services, web-based credit card payment, and direct shipping to customers.

The company’s common stock is listed on the Nasdaq Global Select Market under the ticker symbol “AMZN.”

Facebook, Inc. (“FB”)

Facebook, Inc. operates a social networking website. The company's website allows people to communicate with their family, friends, and co-workers. The company develops technologies that facilitate the sharing of information, photographs, website links, and videos.

The company’s Class A common stock is listed on the Nasdaq Global Select Market under the ticker symbol “FB.”

Alphabet Inc. (“GOOGL”)

Alphabet, Inc. operates as a holding company and is the parent company of Google Inc. (“Google”), The company, through its subsidiaries, provides web-based search, advertisements, maps, software applications, mobile operating systems, consumer content, enterprise solutions, commerce, and hardware products.

The company’s Class A common stock is listed on the Nasdaq Global Select Market under the ticker symbol “GOOGL.”

Netflix Inc. (“NFLX”)

Netflix Inc. is an online movie rental service. The company ships DVDs with no due dates or late fees, directly to the subscriber's address. Netflix also provides background information on DVD releases, including critic reviews, member reviews and ratings, and personalized movie recommendations.

The company’s common stock is listed on the Nasdaq Global Select Market under the ticker symbol “NFLX.”

HISTORICAL INFORMATION

The graphs below set forth the information relating to the historical performance of the Reference Stocks. In addition, below the graphs are tables setting forth the intra-day high, intra-day low and period-end closing prices of the Reference Stocks. The information provided in these tables is for the four calendar quarters of 2008 through 2017, the first and second calendar quarters of 2018 and for the period from July 1, 2018 through September 14, 2018.

We obtained the information regarding the historical performance of the Reference Stocks in the graphs and tables below from Bloomberg Financial Markets.

We have not independently verified the accuracy or completeness of the information obtained from Bloomberg Financial Markets. The historical performance of any Reference Stock should not be taken as an indication of its future performance, and no assurance can be given as to the prices of the Reference Stocks at any time. We cannot give you assurance that the performance of the Reference Stocks will not result in the loss of all or part of your investment.

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

Historical Information for Amazon.com, Inc. (“AMZN”)
Below is a table setting forth the intra-day high, intra-day low and period-end closing prices of this Reference Stock. The information provided in the table is for the period from January 1, 2008 through September 14, 2018.

Period-Start Date	Period-End Date	High Intra-Day Price of this Reference Stock ($)	Low Intra-Day Price of this Reference Stock ($)	Period-End Closing Price of this Reference Stock ($)
1/1/2008	3/31/2008	97.43	61.20	71.30
4/1/2008	6/30/2008	84.88	70.65	73.33
7/1/2008	9/30/2008	91.75	61.33	72.76
10/1/2008	12/30/2008	71.95	34.68	50.76
1/1/2009	3/31/2009	75.61	47.64	73.44
4/1/2009	6/30/2009	88.56	71.71	83.66
7/1/2009	9/30/2009	94.50	75.41	93.36
10/1/2009	12/30/2009	145.91	88.27	136.50
1/1/2010	3/31/2010	138.19	113.83	135.73
4/1/2010	6/30/2010	151.09	106.01	109.26
7/1/2010	9/30/2010	161.75	105.80	157.06
10/1/2010	12/30/2010	185.65	151.42	182.75
1/1/2011	3/31/2011	191.60	160.59	180.13
4/1/2011	6/30/2011	206.39	175.39	204.49
7/1/2011	9/30/2011	243.99	177.12	216.23
10/1/2011	12/30/2011	246.71	167.00	173.10
1/1/2012	3/30/2012	209.85	172.00	202.51
4/1/2012	6/29/2012	233.84	183.66	228.35
7/1/2012	9/28/2012	264.08	212.62	254.32
10/1/2012	12/31/2012	263.08	218.23	251.14
1/1/2013	3/31/2013	284.68	252.07	266.49
4/1/2013	6/30/2013	283.31	245.78	277.69
7/1/2013	9/30/2013	320.50	277.18	312.64
10/1/2013	12/31/2013	405.50	296.56	398.79
1/1/2014	3/31/2014	408.06	330.89	336.52
4/1/2014	6/30/2014	348.17	284.38	324.78
7/1/2014	9/30/2014	364.84	304.60	322.44
10/1/2014	12/31/2014	341.15	284.00	310.35
1/1/2015	3/31/2015	389.37	285.26	372.10
4/1/2015	6/30/2015	452.64	368.34	434.09
7/1/2015	9/30/2015	580.57	425.68	511.89
10/1/2015	12/31/2015	696.38	506.14	675.89
1/1/2016	3/31/2016	657.09	474.02	593.64
4/1/2016	6/30/2016	731.41	585.25	715.62
7/1/2016	9/30/2016	839.95	716.59	837.31
10/1/2016	12/31/2016	847.06	710.25	749.87
1/1/2017	3/31/2017	890.22	747.76	886.54
4/1/2017	6/30/2017	1,016.50	884.59	968.00
7/1/2017	9/30/2017	1,083.15	931.75	961.35

10/1/2017	12/31/2017	1,213.38	950.50	1,169.47
1/1/2018	3/29/2018	1,617.54	1,171.00	1,447.34
4/1/2018	6/29/2018	1,763.00	1,352.88	1,699.80
7/1/2018	9/14/2018	2,050.49	1,679.00	1,970.19

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

The graph below illustrates the performance of this Reference Stock from January 1, 2008 to September 14, 2018, reflecting its Initial Stock Price of $1,970.19 which was its Initial Stock Price. The red line represents the Coupon Barrier and Trigger Price of $1,182.11, which is equal to 60.00% of its Initial Stock Price, rounded to two decimal places.

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

Historical Information for Facebook, Inc. ("FB")
Below is a table setting forth the intra-day high, intra-day low and period-end closing prices of this Reference Stock. The information provided in the table is for the period from May 18, 2012 through September 14, 2018.

Period-Start Date	Period-End Date	High Intra-Day Price of this Reference Stock ($)	Low Intra-Day Price of this Reference Stock ($)	Period-End Closing Price of this Reference Stock ($)
5/18/2012	6/30/2012	43.00	25.52	31.12
7/1/2012	9/30/2012	32.88	17.55	21.65
10/1/2012	12/31/2012	28.87	18.80	26.63
1/1/2013	3/31/2013	32.50	24.73	25.58
4/1/2013	6/30/2013	29.07	22.67	24.86
7/1/2013	9/30/2013	51.59	24.15	50.24
10/1/2013	12/31/2013	58.57	43.56	54.66
1/1/2014	3/31/2014	72.58	51.85	60.24
4/1/2014	6/30/2014	67.99	54.67	67.29
7/1/2014	9/30/2014	79.69	62.22	79.04
10/1/2014	12/31/2014	82.16	70.32	78.02
1/1/2015	3/31/2015	86.06	73.45	82.22
4/1/2015	6/30/2015	89.40	76.79	85.77
7/1/2015	9/30/2015	99.24	72.00	89.90
10/1/2015	12/31/2015	110.64	88.36	104.66
1/1/2016	3/31/2016	117.59	89.38	114.10
4/1/2016	6/30/2016	121.07	106.32	114.28
7/1/2016	9/30/2016	131.97	112.97	128.27
10/1/2016	12/31/2016	133.50	113.56	115.05
1/1/2017	3/31/2017	142.94	115.51	142.05
4/1/2017	6/30/2017	156.50	138.82	150.98
7/1/2017	9/30/2017	175.45	147.80	170.87
10/1/2017	12/31/2017	184.23	168.30	176.46
1/1/2018	3/31/2018	195.31	149.02	159.79
4/1/2018	6/29/2018	203.55	150.51	194.32
7/1/2018	9/14/2018	218.62	160.17	162.32

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

The graph below illustrates the performance of this Reference Stock from May 18, 2012 to September 14, 2018, reflecting its Initial Stock Price of $162.32, which was the Initial Stock Price. The red line represents the Coupon Barrier and Trigger Price of $97.39, which is equal to 60.00% of its Initial Stock Price, rounded to two decimal places.

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

Historical Information for Alphabet Inc. (“GOOGL”)
Below is a table setting forth the intra-day high, intra-day low and period-end closing prices of this Reference Stock. The information provided in the table is for the period from January 1, 2008 through September 14, 2018. Prior to the completion of the issuer’s formation and subsequent stock split in April 2014, information below represents Google’s Class A common stock which traded under on the Nasdaq Global Market under the symbol “GOOGL.”

Period-Start Date	Period-End Date	High Intra-Day Price of this Reference Stock ($)	Low Intra-Day Price of this Reference Stock ($)	Period-End Closing Price of this Reference Stock ($)
1/1/2008	3/31/2008	349.02	206.25	220.45
4/1/2008	6/30/2008	301.52	220.71	263.47
7/1/2008	9/30/2008	278.07	190.57	200.45
10/1/2008	12/30/2008	208.60	123.77	151.70
1/1/2009	3/31/2009	190.68	141.51	174.20
4/1/2009	6/30/2009	223.89	170.47	211.00
7/1/2009	9/30/2009	253.75	198.19	248.17
10/1/2009	12/30/2009	313.25	241.53	311.67
1/1/2010	3/31/2010	315.06	260.25	283.78
4/1/2010	6/30/2010	299.20	222.58	222.69
7/1/2010	9/30/2010	268.64	217.03	263.15
10/1/2010	12/30/2010	315.71	259.68	299.72
1/1/2011	3/31/2011	321.65	275.94	293.39
4/1/2011	6/30/2011	297.88	236.74	253.44
7/1/2011	9/30/2011	314.00	245.67	257.44
10/1/2011	12/30/2011	323.69	240.62	323.26
1/1/2012	3/30/2012	335.45	282.60	320.93
4/1/2012	6/29/2012	326.89	278.54	290.32
7/1/2012	9/28/2012	382.79	281.37	377.62
10/1/2012	12/31/2012	387.54	318.33	355.03
1/1/2013	3/31/2013	422.41	348.10	397.40
4/1/2013	6/30/2013	460.70	381.04	440.61
7/1/2013	9/30/2013	464.45	423.19	438.38
10/1/2013	12/31/2013	561.04	421.90	560.90
1/1/2014	3/31/2014	615.04	542.03	557.80
4/1/2014	6/30/2014	589.60	511.04	584.67
7/1/2014	9/30/2014	608.85	567.60	588.41
10/1/2014	12/31/2014	592.40	497.22	530.66
1/1/2015	3/31/2015	583.12	491.00	554.70
4/1/2015	6/30/2015	584.60	529.01	540.04
7/1/2015	9/30/2015	713.30	539.80	638.37
10/1/2015	12/31/2015	798.69	631.24	778.01
1/1/2016	3/31/2016	810.21	682.20	762.90
4/1/2016	6/30/2016	790.95	672.71	703.53
7/1/2016	9/30/2016	818.97	699.00	804.06
10/1/2016	12/31/2016	839.00	744.03	792.45
1/1/2017	3/31/2017	874.35	796.89	847.80

4/1/2017	6/30/2017	1,008.46	834.78	929.68
7/1/2017	9/30/2017	1,006.05	915.52	973.72
10/1/2017	12/31/2017	1,086.32	962.11	1,053.40
1/1/2018	3/31/2018	1,197.99	984.00	1,037.14
4/1/2018	6/29/2018	1,201.30	994.82	1,129.19
7/1/2018	9/14/2018	1,291.44	1,107.00	1,177.98

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

The graph below illustrates the performance of this Reference Stock from January 1, 2008 to September 14, 2018, reflecting its Initial Stock Price of $1,177.98. The red line represents the Coupon Barrier and Trigger Price of $706.79, which is equal to 60.00% of its Initial Stock Price, rounded to two decimal places.

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

Historical Information for Netflix Inc. (“NFLX”)
Below is a table setting forth the intra-day high, intra-day low and period-end closing prices of this Reference Stock. The information provided in the table is for the period from January 1, 2008 through September 14, 2018.

Period-Start Date	Period-End Date	High Intra-Day Price of this Reference Stock ($)	Low Intra-Day Price of this Reference Stock ($)	Period-End Closing Price of this Reference Stock ($)
1/1/2008	3/31/2008	5.66	2.91	4.95
4/1/2008	6/30/2008	5.84	3.72	3.72
7/1/2008	9/30/2008	4.85	3.77	4.41
10/1/2008	12/30/2008	4.38	2.56	4.09
1/1/2009	3/31/2009	6.34	4.11	6.13
4/1/2009	6/30/2009	7.18	5.18	5.91
7/1/2009	9/30/2009	6.89	5.42	6.60
10/1/2009	12/30/2009	8.81	6.33	7.94
1/1/2010	3/31/2010	10.81	6.93	10.53
4/1/2010	6/30/2010	18.28	10.52	15.52
7/1/2010	9/30/2010	24.91	13.62	23.17
10/1/2010	12/30/2010	29.89	21.06	25.69
1/1/2011	3/31/2011	35.36	24.79	33.90
4/1/2011	6/30/2011	39.67	32.07	37.53
7/1/2011	9/30/2011	43.54	15.38	16.17
10/1/2011	12/30/2011	18.36	8.91	9.90
1/1/2012	3/30/2012	19.06	10.03	16.43
4/1/2012	6/29/2012	16.40	8.67	9.78
7/1/2012	9/28/2012	12.38	7.54	7.78
10/1/2012	12/31/2012	13.96	7.76	13.25
1/1/2013	3/31/2013	28.23	12.96	27.06
4/1/2013	6/30/2013	35.55	22.72	30.16
7/1/2013	9/30/2013	45.71	30.30	44.17
10/1/2013	12/31/2013	55.59	40.42	52.60
1/1/2014	3/31/2014	65.43	45.58	50.29
4/1/2014	6/30/2014	64.40	42.79	62.94
7/1/2014	9/30/2014	69.89	58.94	64.45
10/1/2014	12/31/2014	66.83	45.10	48.80
1/1/2015	3/31/2015	69.50	45.27	59.53
4/1/2015	6/30/2015	100.88	58.47	93.85
7/1/2015	9/30/2015	129.28	85.50	103.26
10/1/2015	12/31/2015	133.26	96.26	114.38
1/1/2016	3/31/2016	122.17	80.07	102.23
4/1/2016	6/30/2016	111.84	84.81	91.48
7/1/2016	9/30/2016	101.27	84.50	98.55
10/1/2016	12/31/2016	129.29	97.63	123.80
1/1/2017	3/31/2017	148.27	124.37	147.81
4/1/2017	6/30/2017	166.80	138.67	149.41
7/1/2017	9/30/2017	190.25	144.25	181.35

10/1/2017	12/31/2017	204.38	176.58	191.96
1/1/2018	3/31/2018	333.98	195.44	295.35
4/1/2018	6/29/2018	423.15	271.42	391.43
7/1/2018	9/14/2018	419.77	310.95	364.56

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-19 RBC Capital Markets, LLC

The graph below illustrates the performance of this Reference Stock from January 1, 2008 to September 14, 2018, reflecting its Initial Stock Price of $364.56. The red line represents the Coupon Barrier and Trigger Price of $218.74, which is equal to 60.00% of its Initial Stock Price, rounded to two decimal places.

SUPPLEMENTAL DISCUSSION OF
U.S. FEDERAL INCOME TAX CONSEQUENCES

The following disclosure supplements, and to the extent inconsistent supersedes, the discussion in the product prospectus supplement dated September 10, 2018 under "Supplemental Discussion of U.S. Federal Income Tax Consequences."

Under Section 871(m) of the Code, a "dividend equivalent" payment is treated as a dividend from sources within the United States. Such payments generally would be subject to a 30% U.S. withholding tax if paid to a non-U.S. holder. Under U.S. Treasury Department regulations, payments (including deemed payments) with respect to equity-linked instruments ("ELIs") that are "specified ELIs" may be treated as dividend equivalents if such specified ELIs reference an interest in an "underlying security," which is generally any interest in an entity taxable as a corporation for U.S. federal income tax purposes if a payment with respect to such interest could give rise to a U.S. source dividend. However, the IRS has issued guidance that states that the U.S. Treasury Department and the IRS intend to amend the effective dates of the U.S. Treasury Department regulations to provide that withholding on dividend equivalent payments will not apply to specified ELIs that are not delta-one instruments and that are issued before January 1, 2019. Based on our determination that the Notes are not delta-one instruments, non-U.S. holders should not be subject to withholding on dividend equivalent payments, if any, under the Notes. However, it is possible that the Notes could be treated as deemed reissued for U.S. federal income tax purposes upon the occurrence of certain events affecting the Reference Stocks or the Notes, and following such occurrence the Notes could be treated as subject to withholding on dividend equivalent payments. Non-U.S. holders that enter, or have entered, into other transactions in respect of the Reference Stocks or the Notes should consult their tax advisors as to the application of the dividend equivalent withholding tax in the context of the Notes and their other transactions. If any payments are treated as dividend equivalents subject to withholding, we (or the applicable withholding agent) would be entitled to withhold taxes without being required to pay any additional amounts with respect to amounts so withheld.

SUPPLEMENTAL PLAN OF DISTRIBUTION (CONFLICTS OF INTEREST)

Delivery of the Notes will be made against payment for the Notes on September 19, 2018, which is the third (3rd) business day following the Trade Date (this settlement cycle being referred to as "T+3"). See "Plan of Distribution" in the prospectus dated September 7, 2018. For additional information as to the relationship between us and RBCCM, please see the section "Plan of Distribution—Conflicts of Interest" in the prospectus dated September 7, 2018.

We will deliver the Notes on a date that is greater than two business days following the Trade Date. Under Rule 15c6-1 of the Exchange Act, trades in the secondary market generally are required to settle in two business days, unless the parties to any such trade expressly agree otherwise. Accordingly, purchasers who wish to trade the Notes more than two business days prior to the original Issue Date will be required to specify alternative arrangements to prevent a failed settlement.

In the initial offering of the Notes, they will be offered to investors at a purchase price equal to par, except with respect to certain accounts as indicated on the cover page of this document.

The value of the Notes shown on your account statement may be based on RBCCM's estimate of the value of the Notes if RBCCM or another of our affiliates were to make a market in the Notes (which it is not obligated to do). That estimate will be based upon the price that RBCCM may pay for the Notes in light of then prevailing market conditions, our creditworthiness and transaction costs. For a period of approximately three months after the issue date of the Notes, the value of the Notes that may be shown on your account statement may be higher than RBCCM's estimated value of the Notes at that time. This is because the estimated value of the Notes will not include the underwriting discount and our hedging costs and profits; however, the value of the Notes shown on your account statement during that period may initially be a higher amount, reflecting the addition of RBCCM's underwriting discount and our estimated costs and profits from hedging the Notes. This excess is expected to decrease over time until the end of this period. After this period, if RBCCM repurchases your Notes, it expects to do so at prices that reflect their estimated value.

We may use this pricing supplement in the initial sale of the Notes. In addition, RBCCM or another of our affiliates may use this pricing supplement in a market-making transaction in the Notes after their initial sale. Unless we or our agent informs the purchaser otherwise in the confirmation of sale, this pricing supplement is being used in a market-making transaction.

Auto-Callable Contingent Coupon Barrier Notes
Linked to the Lesser Performing of Four
Equity Securities
Royal Bank of Canada

STRUCTURING THE NOTES

The Notes are our debt securities, the return on which is linked to the performance of the Reference Stocks. As is the case for all of our debt securities, including our structured notes, the economic terms of the Notes reflect our actual or perceived creditworthiness at the time of pricing. In addition, because structured notes result in increased operational, funding and liability management costs to us, we typically borrow the funds under these Notes at a rate that is more favorable to us than the rate that we might pay for a conventional fixed or floating rate debt security of comparable maturity. Using this relatively lower implied borrowing rate rather than the secondary market rate, is a factor that reduced the initial estimated value of the Notes at the time their terms were set. Unlike the estimated value included in this pricing supplement, any value of the Notes determined for purposes of a secondary market transaction may be based on a different funding rate, which may result in a lower value for the Notes than if our initial internal funding rate were used.

In order to satisfy our payment obligations under the Notes, we may choose to enter into certain hedging arrangements (which may include call options, put options or other derivatives) on the issue date with RBCCM or one of our other subsidiaries. The terms of these hedging arrangements take into account a number of factors, including our creditworthiness, interest rate movements, the volatility of the Reference Stocks, and the tenor of the Notes. The economic terms of the Notes and their initial estimated value depend in part on the terms of these hedging arrangements.

The lower implied borrowing rate is a factor that reduced the economic terms of the Notes to you. The initial offering price of the Notes also reflects the underwriting commission and our estimated hedging costs. These factors resulted in the initial estimated value for the Notes on the Trade Date being less than their public offering price. See "Selected Risk Considerations—The Initial Estimated Value of the Notes Is Less than the Price to the Public" above.

VALIDITY OF THE NOTES

In the opinion of Norton Rose Fulbright Canada LLP, the issue and sale of the Notes has been duly authorized by all necessary corporate action of the Bank in conformity with the Indenture, and when the Notes have been duly executed, authenticated and issued in accordance with the Indenture and delivered against payment therefor, the Notes will be validly issued and, to the extent validity of the Notes is a matter governed by the laws of the Province of Ontario or Québec, or the laws of Canada applicable therein, and will be valid obligations of the Bank, subject to equitable remedies which may only be granted at the discretion of a court of competent authority, subject to applicable bankruptcy, to rights to indemnity and contribution under the Notes or the Indenture which may be limited by applicable law; to insolvency and other laws of general application affecting creditors' rights, to limitations under applicable limitations statutes, and to limitations as to the currency in which judgments in Canada may be rendered, as prescribed by the Currency Act (Canada). This opinion is given as of the date hereof and is limited to the laws of the Provinces of Ontario and Québec and the federal laws of Canada applicable thereto. In addition, this opinion is subject to customary assumptions about the Trustee's authorization, execution and delivery of the Indenture and the genuineness of signatures and certain factual matters, all as stated in the letter of such counsel dated September 7, 2018, which has been filed as Exhibit 5.1 to Royal Bank's Form 6-K filed with the SEC dated September 7, 2018.

In the opinion of Morrison & Foerster LLP, when the Notes have been duly completed in accordance with the Indenture and issued and sold as contemplated by the prospectus supplement and the prospectus, the Notes will be valid, binding and enforceable obligations of Royal Bank, entitled to the benefits of the Indenture, subject to applicable bankruptcy, insolvency and similar laws affecting creditors' rights generally, concepts of reasonableness and equitable principles of general applicability (including, without limitation, concepts of good faith, fair dealing and the lack of bad faith). This opinion is given as of the date hereof and is limited to the laws of the State of New York. This opinion is subject to customary assumptions about the Trustee's authorization, execution and delivery of the

Indenture and the genuineness of signatures and to such counsel's reliance on the Bank and other sources as to certain factual matters, all as stated in the legal opinion dated September 7, 2018, which has been filed as Exhibit 5.2 to the Bank's Form 6-K dated September 7, 2018.