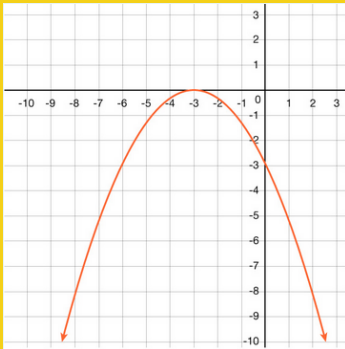
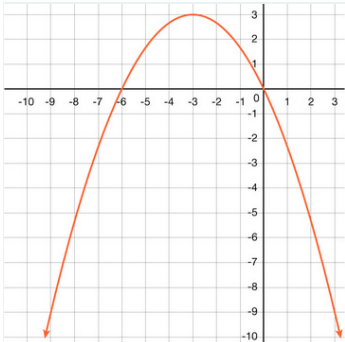
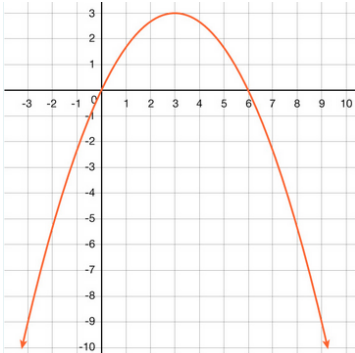
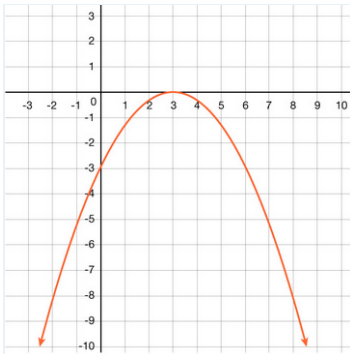
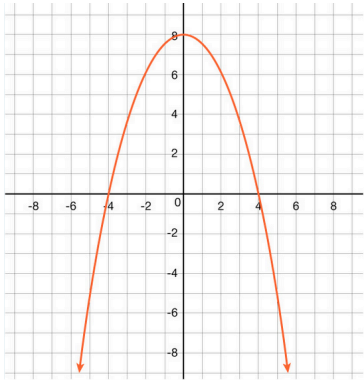


Unit 7 STAAR Review

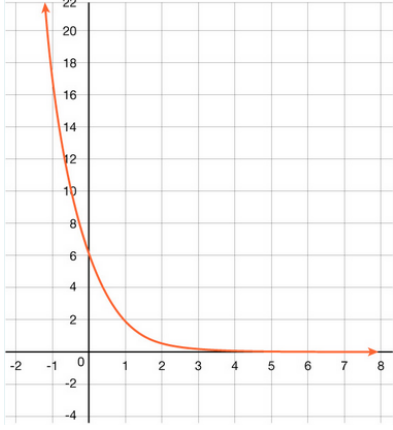
	Question	TEKS	Exam/ Question#	Unit
1	<p>Given $g(x) = x^2 - 6x - 16$, which statement is true?</p> <p>A The zeros are $x = -8$ and $x = 2$ because the factors of g are $(x + 8)$ and $(x - 2)$.</p> <p>B The zeros are $x = -8$ and $x = -2$ because the factors of g are $(x + 8)$ and $(x + 2)$.</p> <p>C The zeros are $x = -2$ and $x = 8$ because the factors of g are $(x + 2)$ and $(x - 8)$. [correct answer]</p> <p>D The zeros are $x = 2$ and $x = 8$ because the factors of g are $(x - 2)$ and $(x - 8)$.</p>	A.7(B)	2021/ Question#4	7

Question	TEKS	Exam/ Question#	Unit																		
<div>2</div> <div>A ball is placed in a machine that throws the ball up in the air. The table represents some points on the graph of a function that models the ball's distance from the ground with respect to the time since the ball has been thrown.</div> <table><tr><td>Time Since Thrown from Machine (seconds)</td><td>0</td><td>0.25</td><td>0.50</td><td>0.75</td><td>1.00</td><td>1.25</td><td>1.50</td><td>1.75</td></tr><tr><td>Distance from Ground (meters)</td><td>0</td><td>2.76</td><td>4.90</td><td>6.43</td><td>7.35</td><td>7.66</td><td>7.35</td><td>6.43</td></tr></table> <div>What is the range for this situation?</div> <div><div>A All real numbers less than or equal to 1.25</div><div>B All real numbers less than or equal to 7.66</div><div>C All real numbers greater than or equal to 0 and less than or equal to 1.25</div><div>D All real numbers greater than or equal to 0 and less than or equal to 7.66 [correct answer]</div></div>	Time Since Thrown from Machine (seconds)	0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	Distance from Ground (meters)	0	2.76	4.90	6.43	7.35	7.66	7.35	6.43	A.6(A)	2021/ Question#12	7
Time Since Thrown from Machine (seconds)	0	0.25	0.50	0.75	1.00	1.25	1.50	1.75													
Distance from Ground (meters)	0	2.76	4.90	6.43	7.35	7.66	7.35	6.43													
<div>3</div> <div>Two characteristics of quadratic function p are given.</div> <div><div>• The axis of symmetry of the graph of p is $x = -3$.</div><div>• Function p has exactly one zero.</div></div> <div>Based on this information, which graph could represent p?</div>	A.7(A)	2021/ Question#7	7																		

Question	TEKS	Exam/ Question#	Unit
<div data-bbox="261 300 966 693"><p>A</p><p>[correct answer]</p></div> <div data-bbox="261 693 966 1050"><p>B</p></div> <div data-bbox="261 1050 966 1449"><p>C</p></div> <div data-bbox="261 1449 966 1869"><p>D</p></div>			

	Question	TEKS	Exam/ Question#	Unit
4	<p>The graph of $f(x) = x^2$ was translated 4.5 units to the left to create the graph of function g. Which function represents g?</p> <p>A $g(x) = (x - 4.5)^2$</p> <p>B $g(x) = (x + 4.5)^2$ [correct answer]</p> <p>C $g(x) = (x + 4.5)^2$</p> <p>D $g(x) = x^2 + 4.5$</p>	A.7(C)	2021/ Question#52	7
5	<p>The graph of a quadratic function is shown on the grid.</p>  <p>Which function is best represented by this graph?</p> <p>A $f(x) = -\frac{1}{2}x^2 + 16$</p> <p>B $f(x) = -x^2 + 16$</p> <p>C $f(x) = -x^2 + 8$</p> <p>D $f(x) = -\frac{1}{2}x^2 + 8$ [correct answer]</p>	A.6(C)	2021/ Question#16	7

	Question	TEKS	Exam/ Question#	Unit
6	<p>Which expression is equivalent to $\frac{36x^4y^5}{(3xy)^2}$ for all values of x and y where the expression is defined?</p> <p>A $12x^3y^4$</p> <p>B $27x^2y^3$</p> <p>C $4x^2y^3$ [correct answer]</p> <p>D $6x^3y^4$</p>	A.11(B)	2021/ Question#26	6
7	<p>Which expression is equivalent to $16w^2 + 24w + 9$?</p> <p>A $(4w + 3)^2$ [correct answer]</p> <p>B $(4w - 3)^2$</p> <p>C $(8w + 3)^2$</p> <p>D $(8w - 3)^2$</p>	A.10(E)	2021/ Question#32	6

	Question	TEKS	Exam/ Question#	Unit
8	<p>An exponential function is graphed on the grid.</p>  <p>Which function is best represented by the graph?</p> <p>A $g(x) = 6(\frac{1}{3})^x$ [correct answer]</p> <p>B $g(x) = 6(3)^x$</p> <p>C $g(x) = 6 - (\frac{1}{3})^x$</p> <p>D $g(x) = 6 - (3)^x$</p>	A.3(B) A.9(C)	2019/ Question#9	5

	Question	TEKS	Exam/ Question#	Unit																																								
9	<p>Which table shows y as a function of x?</p> <p>A</p> <table border="1" data-bbox="345 373 727 562"> <tr> <td>x</td><td>-13</td><td>-13</td><td>-13</td><td>-13</td></tr> <tr> <td>y</td><td>-2</td><td>0</td><td>5</td><td>7</td></tr> </table> <p>B</p> <table border="1" data-bbox="345 611 719 800"> <tr> <td>x</td><td>-6</td><td>-1</td><td>-1</td><td>10</td></tr> <tr> <td>y</td><td>3</td><td>-1</td><td>5</td><td>-9</td></tr> </table> <p>C</p> <table border="1" data-bbox="342 835 716 1024"> <tr> <td>x</td><td>1</td><td>3</td><td>7</td><td>12</td></tr> <tr> <td>y</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> </table> <p>[correct answer]</p> <p>D</p> <table border="1" data-bbox="342 1062 716 1251"> <tr> <td>x</td><td>-9</td><td>-2</td><td>0</td><td>0</td></tr> <tr> <td>y</td><td>-7</td><td>-5</td><td>0</td><td>6</td></tr> </table>	x	-13	-13	-13	-13	y	-2	0	5	7	x	-6	-1	-1	10	y	3	-1	5	-9	x	1	3	7	12	y	4	4	4	4	x	-9	-2	0	0	y	-7	-5	0	6	A.12(A)	2019/ Question#44	4
x	-13	-13	-13	-13																																								
y	-2	0	5	7																																								
x	-6	-1	-1	10																																								
y	3	-1	5	-9																																								
x	1	3	7	12																																								
y	4	4	4	4																																								
x	-9	-2	0	0																																								
y	-7	-5	0	6																																								

	Question	TEKS	Exam/ Question#	Unit
10	<p>A college student completed some courses worth 3 credits and some courses worth 4 credits. The student earned a total of 59 credits after completing 18 courses.</p> <p>How many courses worth 3 credits did the student complete?</p> <p>A 5</p> <p>B 13 [correct answer]</p> <p>C 20</p> <p>D 39</p>	A.6(A)	2019/ Question#25	2