



Unit 7 STAAR Review

	Question	TEKS	Exam/ Question#	Unit
1	Given $g(x) = x^2 - 6x - 16$, which statement is true?	A.7(B)	2021/ Question#4	7
	A The zeros are $x = -8$ and $x = 2$ because the factors of g are $(x + 8)$ and $(x - 2)$.			
	B The zeros are $x = -8$ and $x = -2$ because the factors of g are $(x + 8)$ and $(x + 2)$.			
	C The zeros are $x = -2$ and $x = 8$ because the factors of g are $(x + 2)$ and $(x - 8)$. [correct answer]			
	D The zeros are $x = 2$ and $x = 8$ because the factors of g are $(x - 2)$ and $(x - 8)$.			
2	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.	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			
	What is the range for this situation?			
	A All real numbers less than or equal to 1.25B All real numbers less than or equal to 7.66			
	C All real numbers greater than or equal to 0 and less than or equal to 1.25			
	D All real numbers greater than or equal to 0			

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	and less than or equal to 7.66 [correct answer]			
3	Two characteristics of quadratic function p are given. • The axis of symmetry of the graph of p is $x = -3$. • Function p has exactly one zero. Based on this information, which graph could represent p ? A • [correct answer]	A.7(A	2021/ Question#7	7

	Question	TEKS	Exam/ Question#	Unit
	C 2 2 3 4 5 6 7 8 9 10 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7			
4	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 ? A $g(x) = (x - 4.5)^2$	A.7(C)	2021/ Question#52	7
	B $g(x) = (x + 4.5)^2$ [correct answer]			
	C $g(x) = (x + 4.5)^2$			
	D $g(x) = x^2 + 4.5$			

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5	The graph of a quadratic function is shown on the grid. Which function is best represented by this graph? A $f(x) = -\frac{1}{2}x^2 + 16$ B $f(x) = -x^2 + 16$ C $f(x) = -x^2 + 8$ D $f(x) = -\frac{1}{2}x^2 + 8$ [correct answer]	A.6(C)	2021/ Question#16	7
6	Which expression is equivalent to $\frac{36x^4y^5}{(3xy)^2}$ for all values of x and y where the expression is defined? A $12x^3y^4$ B $27x^2y^3$ C $4x^2y^3$ [correct answer] D $6x^3y^4$	A.11(B)	2021/ Question#26	6

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7	Which expression is equivalent to $16w^2 + 24w + 9$? A $(4w + 3)^2$ [correct answer] B $(4w - 3)^2$ C $(8w + 3)^2$ D $(8w - 3)^2$	A.10(E)	2021/ Question#32	6
8	An exponential function is graphed on the grid. $ \begin{array}{cccccccccccccccccccccccccccccccccc$	A.3(B) A.9(C)	2019/ Question#9	5

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9	Which table shows y as a function of x ?						A.12(A)	2019/	4	
	Α	x	-13	-13	-13	-13			Question#44	
		у	-2	0	5	7				
	В					_				
		x	-6	-1	-1	10				
		у	3	-1	5	-9				
	С									
		x	1	3	7	12				
		у	4	4	4	4	[correct answer]			
	D		_			$\overline{}$				
		x	-9	-2	0	0				
		у	-7	-5	0	6				
						_				

Unit
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