



Mathematics POP QUIZ - Grade 9

Student Name		Class		Date	
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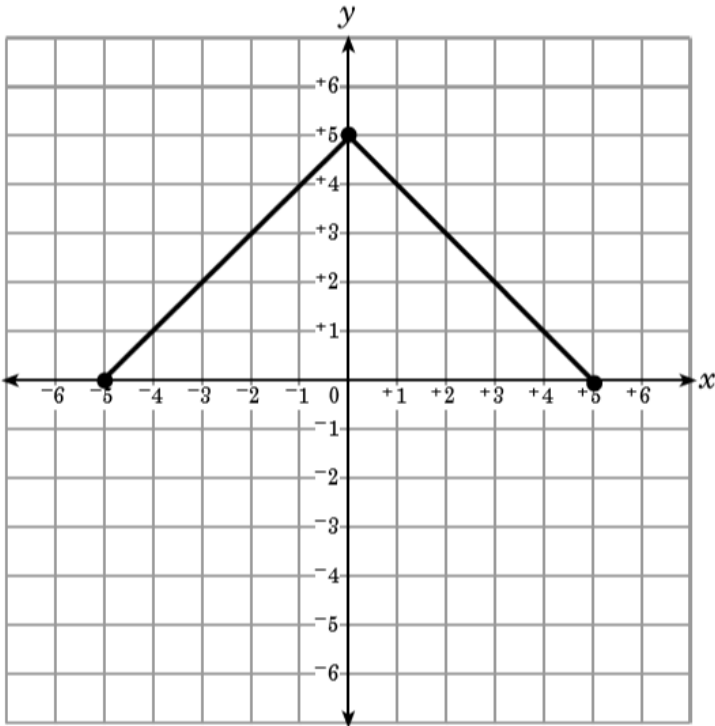
Please read each question carefully and choose the best answer.
CALCULATORS ARE NOT ALLOWED.

1	Given $g(x) = 2x^2 - 12$, find the value of $g(-3)$.	
	A	6
	B	24
	C	-30
	D	-48

2	Which equation or function is linear?	
	A	$y = 2x^2 + 6$
	B	$g(x) = 6 + \frac{7}{x}$
	C	$y = -\frac{4}{5}x + 12$
	D	$f(x) = \sqrt{8 - x}$

3	<p>The graph below shows the resale value of a refrigerator over several years. Find the average rate of change. Explain what the average rate of change means for the situation.</p> <p style="text-align: center;">Resale value of a refrigerator</p> <p style="text-align: center;">Amount (\$)</p> <p style="text-align: center;">Years after original purchase</p>	
	A	$-\frac{40}{3}$; The value drops \$120 every 9 years.
	B	$-\frac{400}{3}$; The value drops \$1200 every 9 years.
	C	$-\frac{40}{1}$; The value drops \$360 every 9 years.
	D	$-\frac{400}{9}$; The value drops \$400 every 9 years.

4	On a map of Business Bay, Al A'amal Street is perpendicular to Marasi Drive. The equation $y = -4x + 3$ represents Al A'amal Street. Which equation represents Marasi Drive if it passes through the point (8, 18)?	
	A	$y = -4x + 50$
	B	$y = -4x + 16$
	C	$y = \frac{1}{4}x + 3$
	D	$y = \frac{1}{4}x + 16$

5	Which function is graphed?	
		
	A	$y = x + 5$
	B	$y = 5 - x $
	C	$y = -5x $
	D	$y = 5 - x $

TOTAL MARKS	/5
PERCENT	%

Feedback

Tested Learning outcomes	Question	✓	X	Action (extra practice question)
Use equations of relations and functions.	1			
Identify linear relations and functions.	2			
Find rate of change.	3			
Write an equation of a line parallel or perpendicular to a given line.	4			
Write and graph step and absolute value functions.	5			
Student Comments				
Parent Signature				

Answer Key – Pop Quiz 1

1	A
2	C
3	D
4	D
5	B