

**PLEASE DO NOT WRITE ON THIS QUIZ**

Example Quiz

**Simplify.**

1. $1 + 7$	2. $-7 - 1$	3. $(12)(-8)$	4. $-77 \div 11$	5. $-(12)^2$
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**Determine the output values.**

6. If $x = 3$ , what is $y$ ? $m(x) = 7x^2 - 6x + 1$	7. $g(x) = 8x + 7$ <table border="1" style="margin-left: auto; margin-right: auto;"><tr><td><math>x</math></td><td><math>-2</math></td><td><math>0</math></td></tr><tr><td><math>y</math></td><td></td><td></td></tr></table>	$x$	$-2$	$0$	$y$			8. $a(x) = 2(x - 6)(x - 9)$ <table border="1" style="margin-left: auto; margin-right: auto;"><tr><td><math>x</math></td><td><math>3</math></td><td><math>6</math></td></tr><tr><td><math>y</math></td><td></td><td></td></tr></table>	$x$	$3$	$6$	$y$			9. $k(x) = -9(x - 2)^2 + 8$ <table border="1" style="margin-left: auto; margin-right: auto;"><tr><td><math>x</math></td><td><math>0</math></td><td><math>2</math></td></tr><tr><td><math>y</math></td><td></td><td></td></tr></table>	$x$	$0$	$2$	$y$		
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**Graph each relation and equation as continuous functions.**

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13. For the domain  $-3 \leq x \leq -1$ , will the lower limit (at  $x = -3$ ) be graphed as an open or closed point? How do you know?

**Graph.**

14. $f(x) = -2x - 1, \quad -2 \leq x < 0$	15. $g(x) = \begin{cases} x + 7, & -4 < x \leq -2 \\ 2x + 2, & -2 < x \leq 1 \\ -3x + 6, & x > 1 \end{cases}$
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**Graph.**

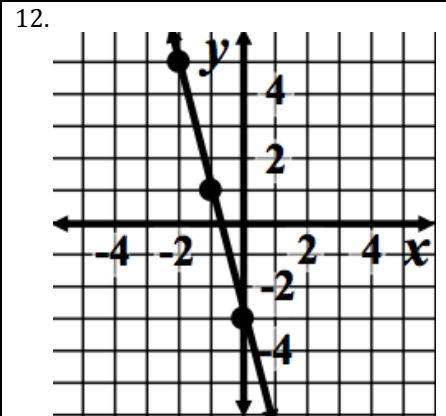
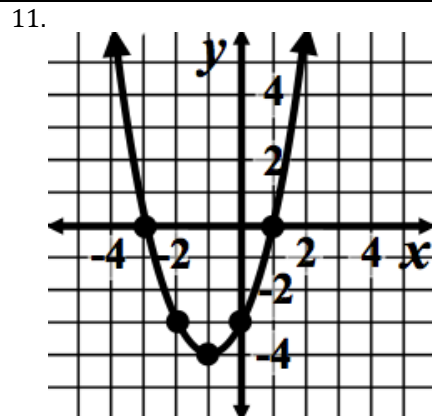
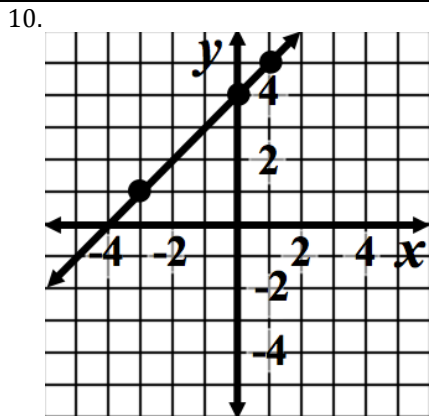
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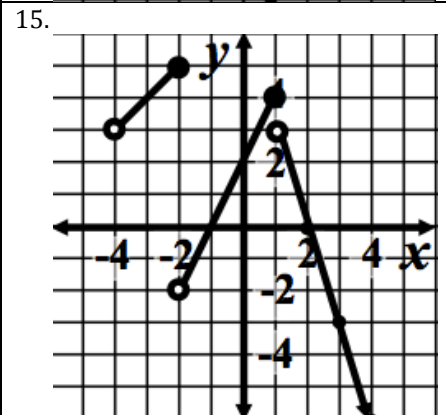
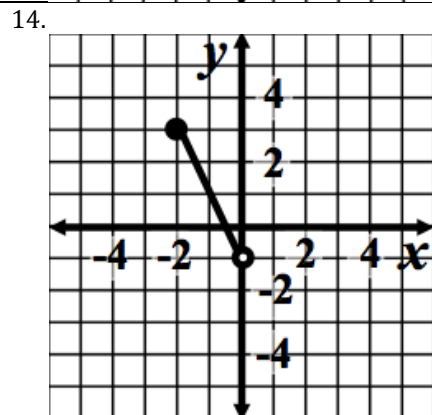
Example Quiz – ANSWER Key

Show your work.	Answers						
<p>ALL OF YOUR WORK GOES IN THESE BOXES!!!!</p>	1. 8						
	2. -8						
	3. -96						
	4. -7						
	5. -144						
	6. 46						
7.	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;"><math>x</math></td> <td style="padding: 2px;">-2</td> <td style="padding: 2px;">0</td> </tr> <tr> <td style="padding: 2px;"><math>y</math></td> <td style="padding: 2px;">-9</td> <td style="padding: 2px;">7</td> </tr> </table>	$x$	-2	0	$y$	-9	7
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$x$	0	2					
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Answers (show work on back)



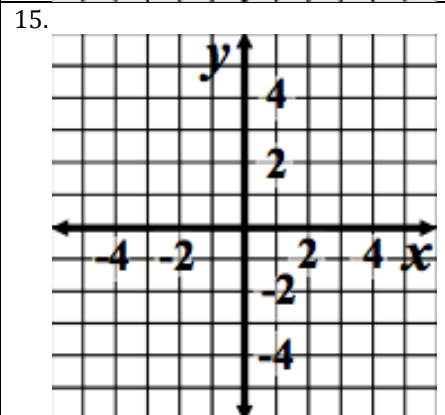
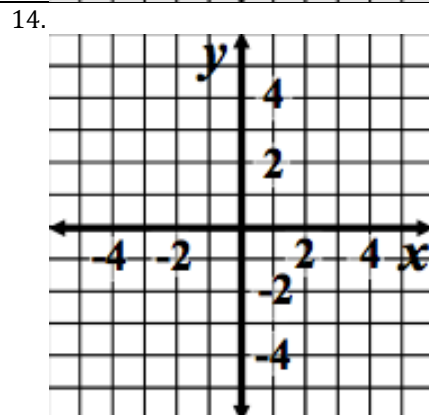
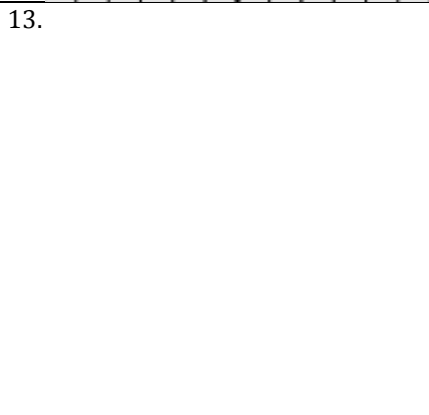
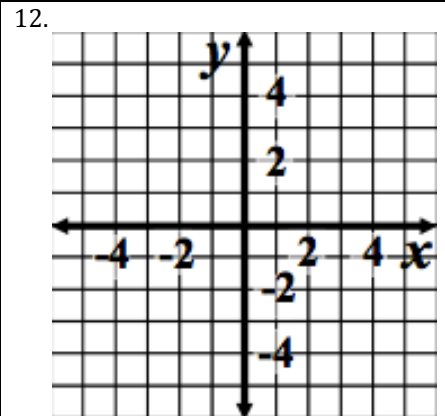
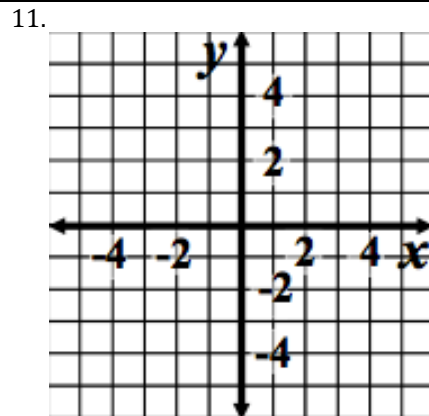
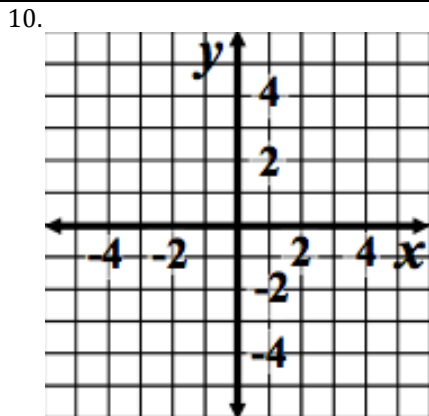
13. The lower limit at  $x = -3$  will be graphed as a **closed** point, because it is written as  $-3 \leq$  in the domain. The “or equal to” line under the less than symbol makes it a closed point.



Example Quiz – ANSWER DOCUMENT

Show your work.		Answers	
1.	2.	1.	
3.	4.	2.	
5.	6.	3.	
		4.	
		5.	
		6.	
7.	8.	7.	$\frac{x}{y} = \frac{-3}{0}$
		8.	$\frac{x}{y} = \frac{3}{6}$
		9.	$\frac{x}{y} = \frac{0}{2}$

Answers (show work on back)



If you want to nominate someone for a HERO point, please write his/her name, and explain why he/she deserves it.

Name: \_\_\_\_\_ Reason: \_\_\_\_\_

Partner: \_\_\_\_\_

Name: \_\_\_\_\_

Per: \_\_\_\_\_

Show your work.

9.

10.

11.

12.

*No work needed for #13*

14.

15.