

Questions before we take our mini-  
test?

-We will take it in about 20 mins...

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7.  $-|m + 3| = -13$       8.  $|-4m| = 64$       9.  $2|x + 1| - 7 = -3$

10.  $5|c + 3| - 1 = 9$       11.  $-2|2p - 3| - 1 = -11$

    +1 +1    

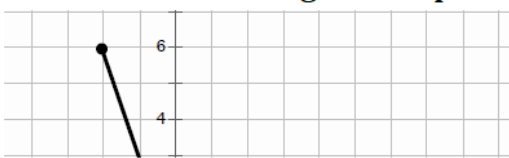
12. Explain why the equation  $|m| = -3$  has no solution.

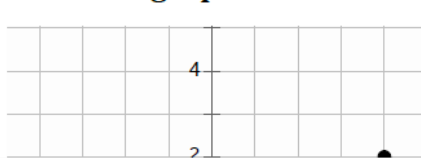
Set  $\frac{5|c+3|=10}{5}$        $\begin{matrix} (c+3)=2 \\ -3 \end{matrix}$        $\begin{matrix} (c+3)=-2 \\ -3 \end{matrix}$

$|c+3|=2$        $c = -1$        $c = -5$

Topic: Reading the domain and range from a graph

**State the domain and range of the piece-wise functions in the graph. Use intervals.**

13. 

14. 

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**Evaluate each expression for the given value of the variable.**

11. $-s$ ; $s = 4$ $-4$	12. $-t$ ; $t = -7$ $-(-7) = 7$	13. $-x$ ; $x = 0$ $0$	14. $-w$ ; $w = -11$ $-(-11) = 11$
15. $ v $ ; $v = -25$ $ -25  = 25$	16. $-(a)$ ; $a = -25$ $-(-25) = 25$	17. $-(-n)$ ; $n = -2$ $-(-2) = 2$	
18. $  -(-p)  $ ; $p = 6$ $ -(+6) $ $6$	19. $  -(-q)  $ ; $q = 8$ $ +(+8)  =  8 $ $8$	20. $  -(-r)  $ ; $r = -9$ $ -(+9) $ $- 9 $ $-9$	

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**Evaluate each expression for the given value of the variable.**

11. $-s; s = 4$ $-4$	12. $-t; t = -7$ $-(-7) = 7$	13. $-x; x = 0$ $0$	14. $-w; w = -11$ $-(-11) = 11$
15. $ v ; v = -25$ $ -25  = 25$	16. $-(a); a = -25$ $-(-25) = 25$	17. $-(-n); n = -2$ $-(-2) = 2$	
18. $  -(-p)  ; p = 6$ $ -(+6) $ $6$	19. $  -(-q)  ; q = 8$ $ +(+8)  =  8 $ $8$	20. $  -(-r)  ; r = -9$ $- -(+9) $ $- -9 $ $-9$	

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7)  $|x| = -13$       8.  $|-4m| = 64$       9.  $2|x + 1| - 7 = -3$

10.  $3| - 1 = 9$       11.  $-2|2p - 3| - 1 = -11$

12. Why the equation  $|m| = -3$  has no solution.

$$-(x+1) = 2 \quad -x = 3$$

$$-x - 1 = 2 \quad x = -3$$

$$(x+1) = 2$$

$$x+1 = 2$$

13. Finding the domain and range from a graph

14. Domain and range of the piece-wise functions in the graph. Use interval notation

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3| - 1 = 9

11.  $-2|2p - 3| - 1 = -11$

why the equation  $|m| = -3$  has no solution.

finding the domain and range from a graph

**domain and range of the piece-wise functions in the graph. Use interval notation**

14.

Handwritten work for problem 11:

$$\frac{-2|2p-3| - 1}{+1} = \frac{-11}{+1}$$

$$\frac{-2|2p-3|}{-2} = \frac{-10}{-2}$$

$$|2p-3| = 5$$

$$\frac{2p-3}{+3} = \frac{5}{+3} \quad \frac{2p-3}{+3} = \frac{-5}{+3}$$

$$\frac{2p}{2} = \frac{8}{2} \quad \frac{2p}{2} = \frac{-2}{2}$$

$$p = 4 \quad p = -1$$

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**Graph each equation.**

1)  $y = |x| + 4$

2)  $y = -|x - 4| - 2$

3)  $y = -|x - 2| - 2$

4)  $y = |x + 2| - 4$

Handwritten notes:

$$f(x) = \begin{cases} -(x) + 4, & x \leq 0 \\ (x) + 4, & x > 0 \end{cases}$$

