

# Algebra 2 Bellwork Monday, September 21, 2015

Solve each compound inequality. Give your answer as a single inequality or statement if possible.

1.  $M > -4$  or  $M < 7$

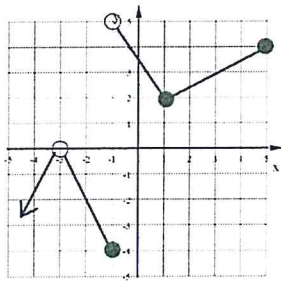
2.  $Q \leq 9$  or  $Q \leq 23$

3.  $c < 1$  and  $c > 4$

4.  $B \geq -8$  and  $B \geq -2$

5. Solve this inequality.  $5x - 2(x + 6) \geq x + 3(x - 2) - x$

6. State the Domain and Range of the graph shown below.



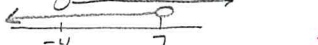
Domain:

Range:

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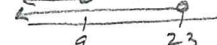
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1.  $M > -4$  or  $M < 7$



$R$

2.  $Q \leq 9$  or  $Q \leq 23$



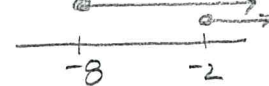
$Q \leq 23$

3.  $c < 1$  and  $c > 4$



NO SOL

4.  $B \geq -8$  and  $B \geq -2$



$B \geq -2$

5. Solve this inequality.  $5x - 2(x + 6) \geq x + 3(x - 2) - x$

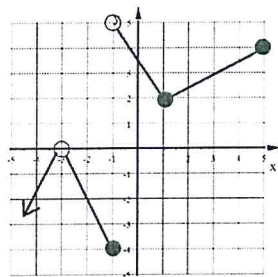
$$5x - 2x - 12 \geq x + 3x - 6 - x$$

$$3x - 12 \geq 3x - 6$$

$$-12 \geq -6$$

NO SOL

6. State the Domain and Range of the graph shown below.



Domain:  $x \leq 5$

Range:  $y < 0$ ,  $2 \leq y < 5$