

Algebra 2 Bellwork Wednesday, September 16, 2015

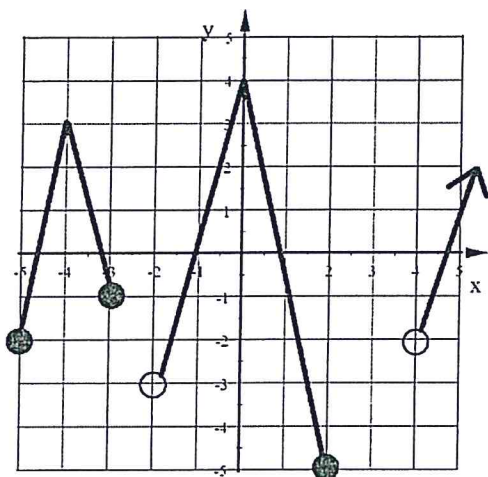
1. For the graph below use inequalities to state the Domain, Range, Intervals of Increasing, and Intervals of Decreasing.

Domain:

Range:

Inc:

Dec:



Solve each compound in equality. State the solution as a single in equality or statement if possible.

2. $3w + 1 < 14$ OR $2w - 5 \leq 24$

3. $6 - 2c \geq 14$ OR $10c > 25$

4. $2k > 12$ AND $9 + 5k > 44$

5. $-13 \leq 3 - 2m \leq -41$

6. $R > -6$ OR $R < 12$

7. $G \geq -12$ AND $G \leq -1$

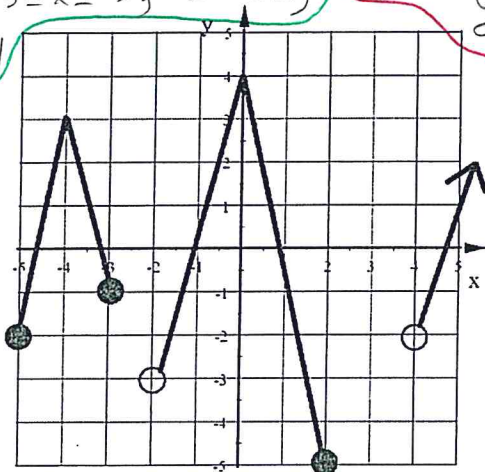
1. For the graph below use inequalities to state the Domain, Range, Intervals of Increasing, and Intervals of Decreasing.

Domain:

$-5 \leq x \leq -3$, $-2 < x \leq 2$, $x > 4$

Range:

$y \geq -5$



Inc:

$-5 < x < -4$
 $-2 < x < 0$
 $x > 4$

Dec:

$-4 < x < -3$
 $0 < x < 2$

Solve each compound in equality. State the solution as a single in equality or statement if possible.

2. $3w + 1 < 14$ OR $2w - 5 \leq 24$

$-1 -1$

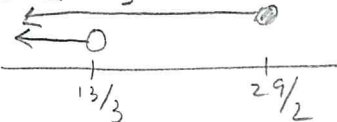
$+5 +5$

$w \leq \frac{29}{2}$

$3w < 13$

$2w \leq 29$

$w < \frac{13}{3}$ OR $w \leq \frac{29}{2}$



4. $\frac{2k}{2} > \frac{12}{2}$ AND $\frac{9+5k}{-9} > \frac{44}{-9}$

$k > 6$

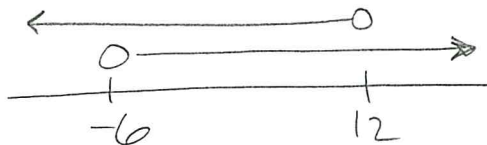
$\frac{5k}{5} > \frac{35}{5}$

$k > 6$ AND $k > 7$

$k > 7$



6. $R > -6$ OR $R < 12$



R

3. $6 - 2c \geq 14$ OR $\frac{10c}{10} > \frac{25}{10}$

$-6 -6$

$-2c \geq 8$

$c \leq -4$ OR $c > 2.5$



$c \leq -4$ OR $c > 2.5$

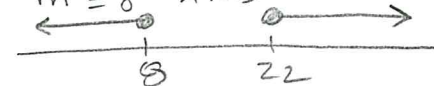
5. $-13 \leq 3 - 2m \leq -41$

$-3 -3 -3$

$\frac{-16}{-2} \leq \frac{-2m}{-2} \leq \frac{-44}{-2}$

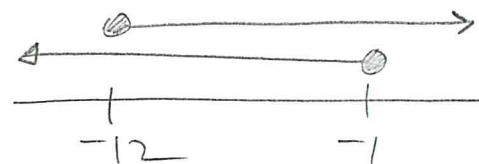
$8 \geq m \geq 22$

$m \leq 8$ AND $m \geq 22$



NO SOL

7. $G \geq -12$ AND $G \leq -1$



$-12 \leq G \leq -1$