Bellwork Alg 2A Monday, September 26, 2016

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

1. $3M + 1 < 11$ *or* $6 - 2M < 7$

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

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

4. $-6 \leq B + 2$ *AND* $B \geq -2$

5. $W < -5$ *or* $W > 0$

6. $R \geq 3$ *and* $-\frac{R}{2} + 3 \geq 23$

7. $-13 < 2x + 1 < 17$

8. $14 > 4 - 5x > 24$

Bellwork Alg 2A Monday, September 26, 2016 Answers

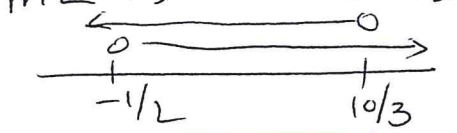
Solve each inequality. Give your answer as a single statement if possible.

1. $3M+1<11$ or $6-2M<7$

$-1\ -1$ $\quad -6\ -6$

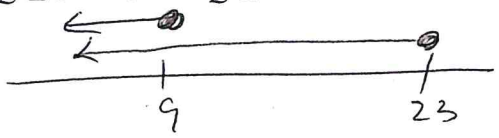
$\frac{3m}{3}<\frac{10}{3}$ $\quad \frac{-2m}{-2}<\frac{1}{-2}$

$m<10/3$ or $m>-1/2$



ALL REAL #'S

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



$Q\le 23$

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

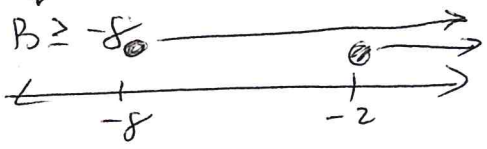
NO SOLUTION

4. $-6\le B+2$ AND $B\ge -2$

$-2\ -2$

$-8\le B$

$B\ge -8$



$B\ge -2$

5. $W<-5$ or $W>0$

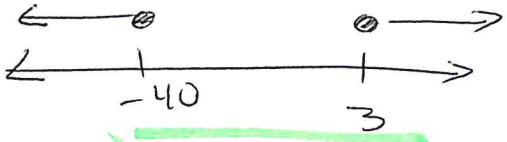
$W<-5$ or $W>0$

6. $R\ge 3$ and $-\frac{R}{2}+3\ge 23$

$-3\ -3$

$(-2)(-R/2)\ge(20)(-2)$

$R\le -40$



NO SOLUTION

7. $-13<2x+1<17$

$-1\ -1\ -1$

$\frac{-14}{2}<\frac{2x}{2}<\frac{16}{2}$

$-7<x<8$

8. $14>4-5x>24$

$-4\ -4\ \ -4$

$\frac{10}{-5}>\frac{-5x}{-5}>\frac{20}{-5}$

$-2<x<-4$

NO SOLUTION

$x>-2$ and $x<-4$