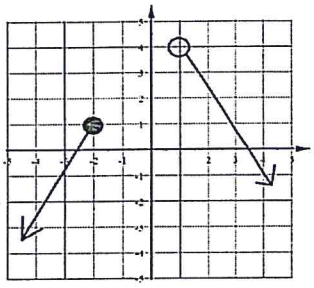
Algebra 2 Bellwork Tuesday, September 13, 2016

1. State the Domain and Range of this relation: $(5,9),(-3,7),(4,-1),(5,0)$

Domain: Range:



2. Use the graph at the right to do the following:

a) State Domain & Range using inequalities.

Domain: Range:

b) State intervals of inc and dec using inequalities.

Increasing: Decreasing:

3. Solve each equation for Q. State restrictions on the variables.

a. $\frac{RQ-C}{M}+W=KQ$

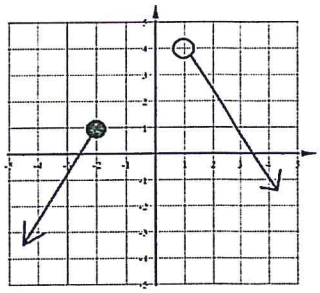
b. $P=\frac{A-B}{\sqrt{Q+D}}-K$

Algebra 2 Bellwork Tuesday, September 13, 2016 ANSWERS

1. State the Domain and Range of this relation: $(5,9),(-3,7),(4,-1),(5,0)$

Domain: Range:

$\{-3,4,5\}$ $\{-1,0,7,9\}$



2. Use the graph at the right to do the following:

a) State Domain & Range using inequalities.

Domain: Range:

$x \le -2,\ x>1$ $y<4$

b) State intervals of inc and dec using inequalities.

Increasing: Decreasing:

$x \le -2$ $x>1$

3. Solve each equation for Q. State restrictions on the variables.

a. $\frac{RQ-C}{M}+W=KQ$

$Q=\frac{C-WM}{R-KM}$ $R-KM\neq 0$ } $R\neq KM$

or

$Q=\frac{WM-C}{KM-R}$ $KM-R\neq 0$ }

b. $P=\frac{A-B}{\sqrt{Q+D}}-K$

$Q=\left(\frac{A-B}{P+K}\right)^2-D$

$P+K\neq 0$ $Q+D>0$