

# Algebra 2 Bellwork Tuesday, September 15, 2015

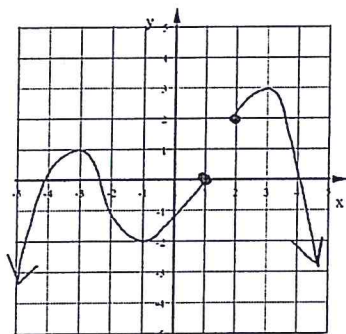
1. For the graph below use inequalities to state the Domain, Range, Intervals of Increasing, and Intervals of Decreasing.

Domain:

Range:

Inc:

Dec:



2. Solve this equation for  $Q$ . State restrictions on the variables.

$$\frac{A}{M-P} = \frac{K}{G+Q}$$

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**Answers**

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

Domain:

Range:

Inc:

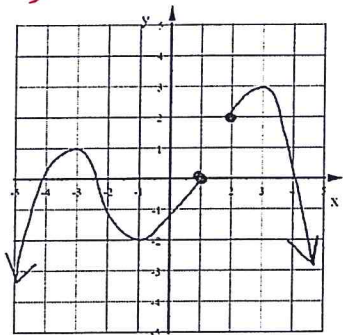
Dec:

$$x \leq -1, x \geq 2$$

$$y \leq 3$$

$$\begin{aligned} x &\leq -3 \\ -1 &< x < 1 \\ 2 &< x < 3 \end{aligned}$$

$$\begin{aligned} -3 &< x < -1 \\ x &> 3 \end{aligned}$$



2. Solve this equation for  $Q$ . State restrictions on the variables.

$$\frac{A}{M-P} = \frac{K}{G+Q}$$

Cross mult:  $A(G+Q) = K(M-P)$

DIVIDE BY A:  $G+Q = \frac{K(M-P)}{A}$

SUBTRACT  $G$ :  $Q = \frac{K(M-P)}{A} - G$

Restrictions:

$$M-P \neq 0, G+Q \neq 0, A \neq 0$$

\* There are several other ways to solve for  $Q$  & get equivalent answer.