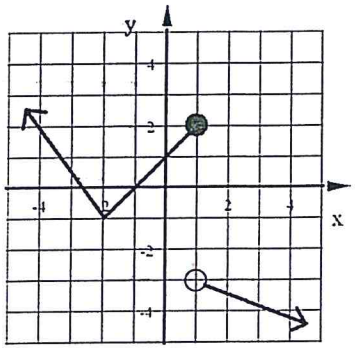
Honors Alg 2 Bellwork Wednesday, September 14, 2016

1. Use the graph below to answer the following questions.



a) Use inequalities to state the Domain & Range.

Domain Range

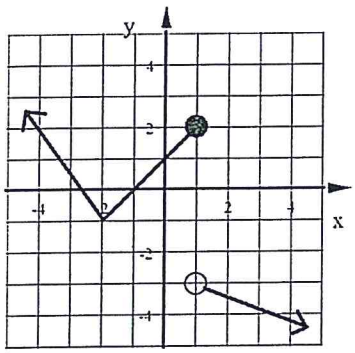
b) Use inequalities to state intervals of Inc and Dec.

Increasing Decreasing

2. Solve this equation for M. State restrictions on the variables. $\frac{M-R}{P+Q} - A = M$

Honors Alg 2 Bellwork Wednesday, September 14, 2016 ANSWERS

1. Use the graph below to answer the following questions.



a) Use inequalities to state the Domain & Range.

Domain: R

Range: $y < -3$, $y \geq -1$

b) Use inequalities to state intervals of Inc and Dec.

Increasing: $-2 < x \leq 1$

Decreasing: $x < -2$, $x > 1$

2. Solve this equation for M. State restrictions on the variables. $\frac{M-R}{P+Q} - A = M$

$P+Q \cdot \frac{M-R}{P+Q} = (M+A)(P+Q)$

$M - R = MP + MQ + AP + AQ$

$M - MP - MQ = AP + AQ + R$

$\frac{M(1-P-Q)}{1-P-Q} = \frac{AP+AQ+R}{1-P-Q}$

$M = \frac{AP+AQ+R}{1-P-Q}$ $P+Q \neq 0$, $1-P-Q \neq 0$