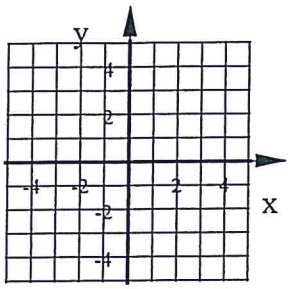
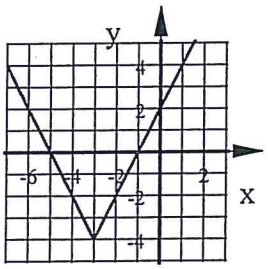
Bellwork Hon Alg 2 Monday, September 19, 2016

1. Graph $y = -\frac{3}{2}|x-1|+5$



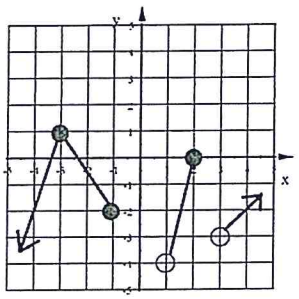
2. Write the equation of this graph



3. Solve this equation for R.
State restrictions on the variables.

$\frac{TB}{W} = G + \frac{K}{C-R}$

4. State the Domain and Range of the graph below.

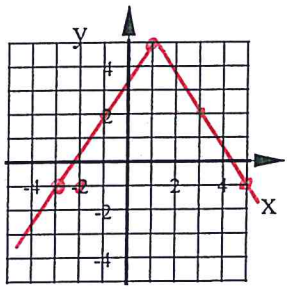


Domain:

Range:

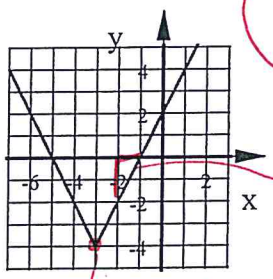
Bellwork Hon Alg 2 Monday, September 19, 2016 Answers

1. Graph $y = -\frac{3}{2}|x-1|+5$



vertex (1,5)
opens down
slopes $\pm 3/2$

2. Write the equation of this graph



$y = 2|x+3|-4$

slope $= \frac{2}{1}$

Vertex $(-3,-4)$
3 left 4 down

3. Solve this equation for R.
State restrictions on the variables.

$\frac{TB}{W} = G + \frac{K}{C-R}$

$-G \quad -G$

$\frac{TB}{W} - G\frac{W}{W} = \frac{K}{C-R}$

$\frac{TB-GW}{W} = \frac{K}{C-R}$ ↓ CROSS MULT

$(C-R)(TB-GW) = KW$

$\frac{(C-R)(TB-GW)}{TB-GW} = \frac{KW}{TB-GW}$

$C - R = \frac{KW}{TB-GW}$

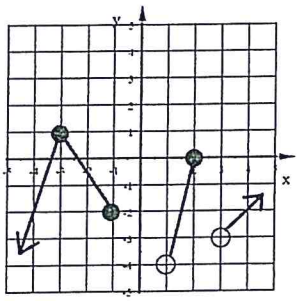
$+R \qquad +R$

$C = \frac{KW}{TB-GW} + R$

$R = C - \frac{KW}{TB-GW}$

$W \neq 0$
$C-R \neq 0$
$TB-GW \neq 0$

4. State the Domain and Range of the graph below.



Domain: $x \leq -1,\ 1 < x \leq 2,\ x > 3$

Range: R