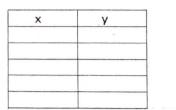
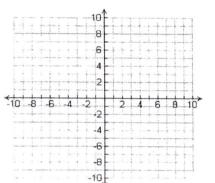
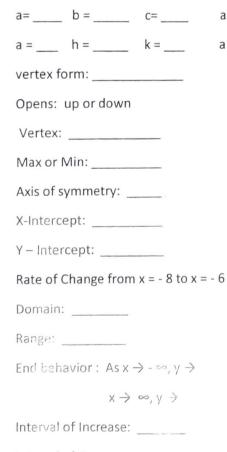
Converting Standard to Vertex Form HWK

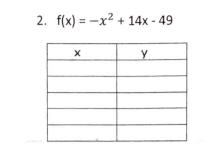
1. $f(x) = x^2 + 14x + 48$

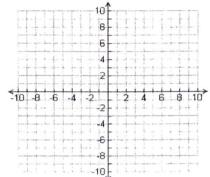






Interval of Decrease:





a=_____ b = _____ c= ____ a = h = k = vertex form: _____ Opens: up or down Vertex: Max or Min: Axis of symmetry: _____ X-Intercept: _____ Y – Intercept: Slope from x = 7 to x = 9Domain: Range:

 $X \rightarrow \infty, V \rightarrow$

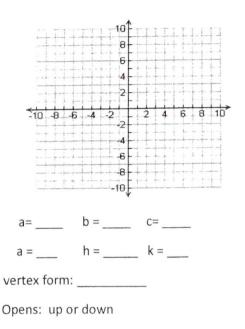
Interval of Increase: Inte

Interval of Decrease: _____ Interval of Decrease: ____

Name:

3. $f(x) = -2x^2 + 16x - 34$

x	У



Vertex:

Max or Min: _____

Axis of symmetry: _____

X-Intercept: _____

Y – Intercept:

Rate of Change from x = 2 to x = 3

Domain:

Range:

End behavior : As $x \rightarrow -\infty$, $y \rightarrow$ End behavior : As $x \rightarrow -\infty$, $y \rightarrow$

 $X \rightarrow \infty, V \rightarrow$

nterval of Increase:	
Interval of Decrease	

Convert the following from standard form to vertex form.

1. $Y = x^2 + 14x + 11$

2. $Y = x^2 - 8x + 10$

2. $Y = 2x^2 + 4x - 5$

4. $Y = x^2 + 12x + 6$

5. $y = x^2 - 4x + 15$

6. $Y = x^2 - 4x + 6$