## **Bell Work**

## 4/13/2015

Factor out the greatest common factor:

 $(a\chi^{2}(1 + 4\chi^{2}) = 6x^{2} + 24x^{4})$ 

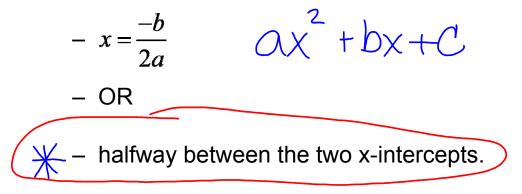
What are the roots of the polynomial:

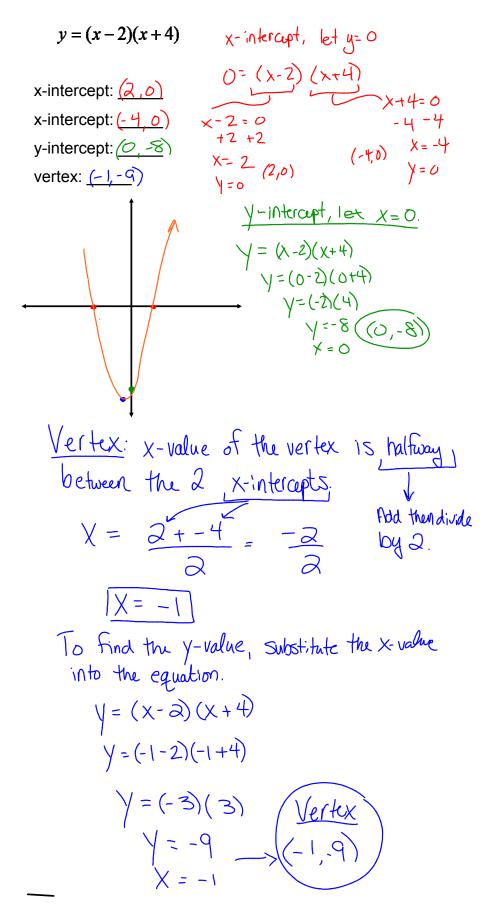
$$\begin{array}{c} \chi = 5 \\ \chi = -2 \\ \chi = -2 \\ \chi = -5 = 0 \\ +5 +5 \\ \chi = -5 \end{array} \qquad \begin{array}{c} (x-5)(2x+4) = 0 \\ 2 \neq +4 = 0 \\ -4 -4 \\ -4 -4 \\ 2 \neq -4 \\ \chi = -2 \\ \chi =$$

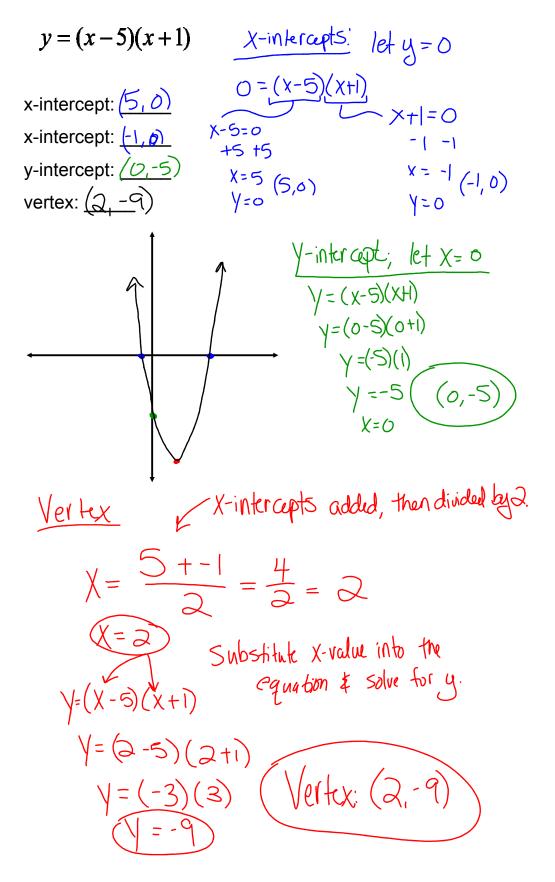
When graphing a quadratic we will graph 4 things:

- > x-intercepts
- > y-intercept
- > vertex
  - <u>The lowest point or the highest point on a parabola is</u> <u>called the vertex.</u>

- For any y-intercept, the x-value is equal to:  $\frac{2ero}{2}$ .
- For any x-intercept, the y-value is equal to: 2erO.
- To find the vertex, we will first find the x-value and then substitute that in the equation to find the corresponding y-value.
  - > We can find the vertex 2 ways







## Assignment Graphing Quadratics Practice 1