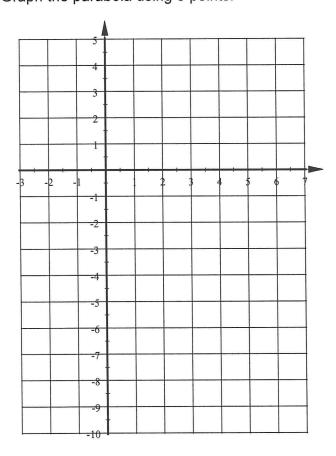
Algebra 2 Bellwork Friday, October 31, 2014

- 1. Find the x-intercepts of this quadratic: y = (2x 7)(6x + 5)
- 2. Find the solutions to this equation: 0 = 5x(9x 8)
- 3. Given the following quadratic: y = (x+1)(x-5) Find the x-intercepts Find the equation for the LOS Find the coordinates of the vertex Graph the parabola using 5 points.



- 4. Factor each completely.
- a) $108m^3 147m$

b) $12c^2 + 34c - 28$

Algebra 2 Bellwork Friday, October 31, 2014 ANSWERS

1. Find the x-intercepts of this quadratic: y = (2x - 7)(6x + 5) 2x - 7 = 0 x - 10 x = -5/6

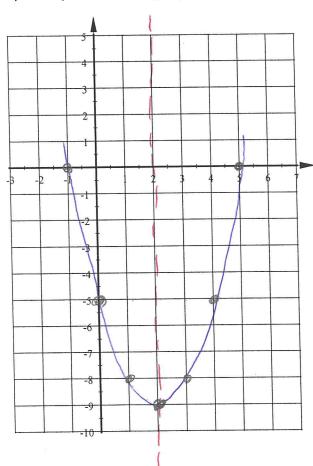
2. Find the solutions to this equation: 0 = 5x(9x - 8)

Sol: X = 0, $\frac{8}{9}$ $\frac{5}{4}$ $\frac{9}{4}$ $\frac{9}{4}$ $\frac{9}{4}$ $\frac{8}{4}$ $\frac{9}{4}$ $\frac{9}{4}$ $\frac{8}{4}$ $\frac{9}{4}$ $\frac{9}{4}$ Find the x-intercepts - | & 5

Find the equation for the LOS $\chi = \frac{-1+5}{2} = \frac{4}{2} = 2$

Find the coordinates of the vertex (2, -9) (2+1)(2-5) = (3)(-3) = -9

Graph the parabola using 5 points.



- y INT: (0+1)(0-5) (1)(-5) = -5
- $\alpha = 1$ 11 $14 \rightarrow 14$ (or) X Y 1 -8 0 -5

- 4. Factor each completely.
- a) $108m^3 147m$

GCF = 3M

3m (36m2-49)

 $3m(6m\pm7)$

 $\begin{bmatrix}
2(3c-2)(2c+7) & -84/\\
3c-2 & +21/-4\\
2c|6c^2-4c| & 17
\end{bmatrix}$

