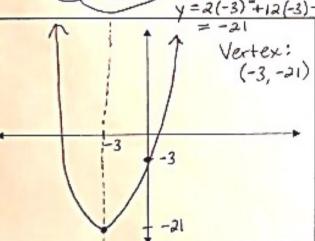
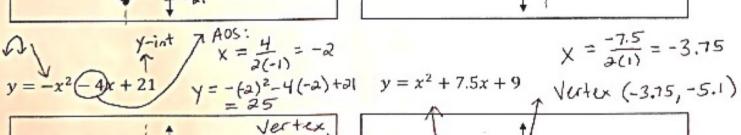
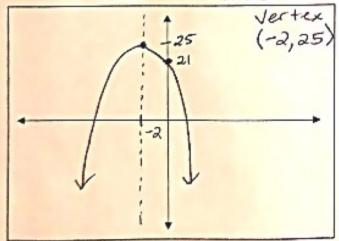
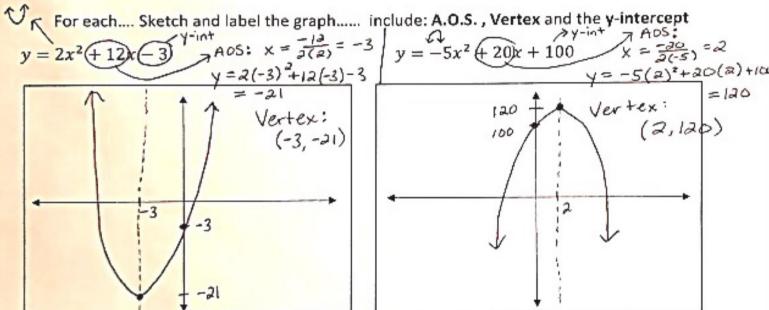
Use Standard Form: $y = Ax^2 + Bx + C$ to describe/Sketch A Quadratic Function

- 1. What shape does a Quadratic function have? "U" Shape Parabola
- 2. How do you know when it opens up or down? If A is + to, If A is Co
- What is the y-intercept when written in Standard form? ____ C value___
- What is the equation of the vertical line which is the Axis of Symmetry? $\times = 5.0$
- 5. What point on the graph of a quadratic function does the A.O.S. go through? <u>Vertex</u>









$$X = \frac{-7.5}{2(1)} = -3.75$$

$$Y = x^2 + 7.5x + 9 \qquad \text{Varies } (-3.75, -5.1)$$

