Match each word with its definition.

1. focus
   A. Perpendicular to the axis of symmetry.
2. vertex
   B. A point that lies on the axis of symmetry
3. directrix
   C. A point halfway between the focus and directrix.
4. $y = ax^2 + bx + c$
   D. The graph of a quadratic equation.
5. parabola
   E. The equation of a quadratic function.

b.) Identify the focus and directrix of the parabola given by $x = -\frac{1}{2}y^2$. 

[Graph of a parabola]
7.) Write an equation of the parabola shown at the right.