1. Use this equation: $y = 5(x+2)^2 - 6$

a) State the coordinates of the Vertex

b) State the coordinates of the Focus

- c) Write the equation of the Directrix
- 2. Use this equation: $x = -\frac{1}{4}(y-3)^2 + 8$
- a) State the coordinates of the Vertex

b) State the coordinates of the Focus

c) Write the equation of the Directrix

3. The coordinates of the vertex of a parabola are (-1,9) and the coordinates of the Focus are (-1,5). Write the equation of the parabola.

EQ:

4. The coordinates of the vertex of a parabola are (7,2) and the equation of the Directrix is x=2. Write the equation of the parabola.

EQ:

5. The Directrix is y = -12 and the coordinates of the Focus are (-3, 11). Write the equation of this parabola.

EQ: