Name : _____ Score : _____

Teacher : _____ Date : _____

Writing Equations of Parabolas

Use the info given to write the vertex form of each parabola.

1) Vertex at origin, Opens Left , and distance between vertex and focus: $\frac{1}{12}$ units

2) Passes through points: (-5, -27); (0, -12); (-1, -3) , and Opens Up or Down

3) Vertex at (-3,8), Y-Intercept: 26

4) Vertex at origin, Directrix: $y = \frac{1}{4}$

5) Vertex at (0,-1), Directrix: $y = \frac{7}{-8}$

6) Vertex at origin, Focus: $(0 , \frac{1}{16})$

7) Vertex at origin, Focus: $(0 , \frac{1}{8})$

8) Vertex at origin, Directrix: $y = \frac{-1}{12}$

9) Vertex at (0,6), passes through (16, 8) , and Opens Left or Right

10) Vertex at (0,-4), Y-Intercept: -4