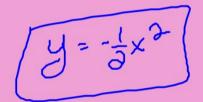
10.2 - Review - Warm - up

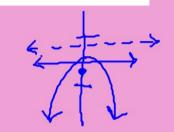


1. What is an equation of the parabola with vertex at the origin and focus (0, -0.5)?

$$y = ax^2$$

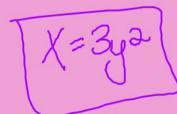
$$a = \frac{1}{4c} = \frac{1}{4(-5)} = -\frac{1}{2}$$





2. What is an equation of the parabola with vertex at the origin and directrix $x = -\frac{1}{12}$?

$$a = \frac{1}{4c} = \frac{1}{4(1/12)} = \frac{1}{1/3} = 3$$



$$\frac{1}{1} = \frac{3}{1} = \frac{1}{1} \cdot \frac{3}{3} = 3$$

