Learning Center 2: Parabolas

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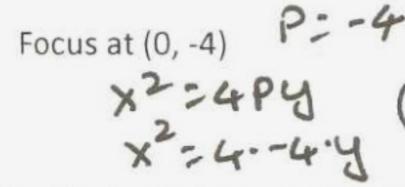
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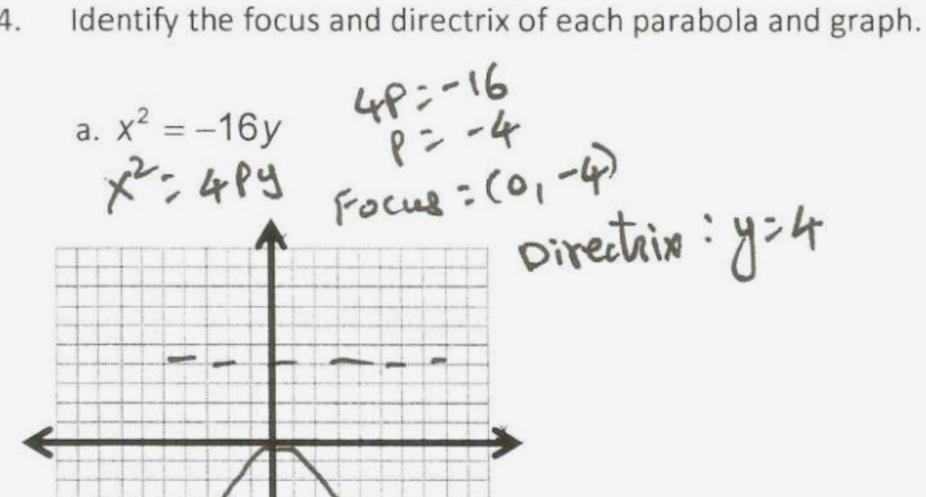
1. Write the standard form of the parabola with its vertex at the origin and focus at

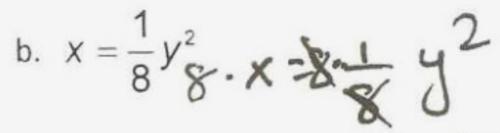
vertex: (0,0) Focus: (0,P)=(0,4)

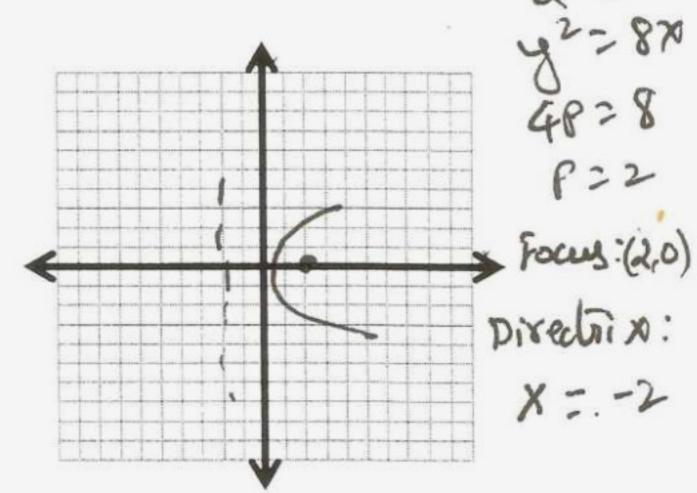
Equation: x2=4Py 1 x2=4.4.4

- 2. What is the standard form of the equation of the parabola with directrix y = 4y=-P, y=4 So, P=-4 and vertex at (0, 0)? Eq: x2=4Py; x2=4.4y (x2=-164
- 3. Write the equation of the conic and graph it
 - a. Parabola with vertex at (0, 0) and
- Directrix x = -5 $y^{2} = 4Px$ $y^{2} = 4.5 \cdot x$ b. Parabola with vertex at (0, 0) and









- 5. Tell whether the parabola opens up, down, left, or right.
 - a. $x^2 = 2y$ UP

b. $y^2 = 8x$ Right

c.
$$y^2 = -4x$$
 Left

$$d. x^2 = -6y \qquad ds \omega \Upsilon$$