

**Sketching Ellipses**

example: Sketch the ellipse  $\frac{(x-1)^2}{25} + \frac{(y-2)^2}{9} = 1$

**You can try this one . . .**

example: Sketch the ellipse  $\frac{(x-2)^2}{9} + \frac{(y+4)^2}{16} = 1$

**An alternate form of an ellipse equation**

$$5x^2 + 9y^2 - 36y - 9 = 0$$

$$5x^2 +$$

$$5x^2 +$$

$$5x^2 +$$

$$5x^2 +$$

$$5x^2 +$$

$$5x^2 +$$

$$5x^2 +$$

$$\frac{5x^2}{45} +$$

**Try this for yourself . . .**

Sketch a graph of the ellipse  $4x^2 - 16x + 4 + 3y^2 - 6y + 3 = 0$