

Ex 1) Write the equation in standard form.

$$x^2 - 4y^2 - 2x - 40y - 103 = 0$$

$$x^2 - 2x - 4y^2 - 40y = 103$$

$$x^2 - 2x + \underline{1} - 4(y^2 + 10y + \underline{25}) = 103$$

$$(x-1)^2 - 4(y+5)^2 \overset{+1}{\underset{-100}{}} = 103$$

$$\frac{(x-1)^2}{4} - \frac{4(y+5)^2}{4} = \frac{4}{4}$$

$$\boxed{\frac{(x-1)^2}{4} - (y+5)^2 = 1}$$

Horizontal Hyperbola

$$\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = \textcircled{1}$$

Vertical Hyperbola

$$\frac{(y-k)^2}{a^2} - \frac{(x-h)^2}{b^2} = 1$$

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