## Example a) Ellipses p. 5 Ch 11

Putting into the correct form

$$4x^2 + y^2 = 16$$

 1<sup>st</sup> the constant must be 1 so divide all terms by 16

$$4x^2_{/16} + y^2_{/16} = 16_{/16}$$

## The Correct Form Is:

$$\frac{x^2}{4} + \frac{y^2}{16} = 1$$

Meaning:  $a^2 = 16 \& b^2 = 4$  so, this ellipse has a major axis that is vertical