## EXTRA PRACTICE - Exercises

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## Unit IX - The Conic Sections <br> Part C - Ellipses <br> Lesson 1 - Ellipses - Standard Form

Graph the solution set ellipse for each of the following second-degree equations. In addition, identify the center and describe the two axes of symmetry.

1. $\frac{x^{2}}{9}+\frac{y^{2}}{4}=1$
2. $\frac{x^{2}}{4}+\frac{y^{2}}{9}=1$
3. $\frac{(x-1)^{2}}{16}+\frac{(y+5)^{2}}{9}=1 \quad$ 4. $\frac{(x+2)^{2}}{16}+\frac{(y-3)^{2}}{25}=1$
4. $\frac{(x+3)^{2}}{4}+\frac{(y-2)^{2}}{36}=1$

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## Unit IX - The Conic Sections <br> Part C - Ellipses <br> Lesson 1 - Ellipses - Standard Form

Graph the solution set ellipse for each of the following second-degree equations. In addition, identify the center and describe the two axes of symmetry.


$$
\text { 2. center }(0,0)
$$

$\mathrm{a}=2, \mathrm{~b}=3$
Horizontal axis $=4$
Vertical axis $=6$

3. center $(1,-5)$
$a=4, b=3$
Horizontal axis $=8$
Vertical axis $=6$

4. center $(-2,3)$
$a=4, b=5$
Horizontal axis $=8$
Vertical axis $=10$

5. center ( $-3,2$ )
$a=2, b=6$
Horizontal axis $=4$
Vertical axis $=12$


