Student: _____	**Instructor:** Fred Khoury	**Assignment:** Quiz Sec 4.6
Date: _____	**Course:** Math 2312-1000 Precalculus (Fall - 2015)	
Time: _____	**Book:** Lial: College Algebra and Trigonometry, 4e	

1. Find the intercepts of the ellipse defined by the following equation.

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

A. x-intercepts are ± 4; y-intercepts are ± 16

B. x-intercepts are ± 16; y-intercepts are ± 4

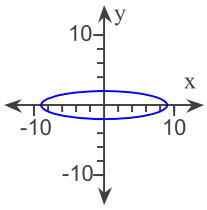
C. x-intercepts are ± 4; y-intercepts are ± 2

D. x-intercepts are ± 2; y-intercepts are ± 4

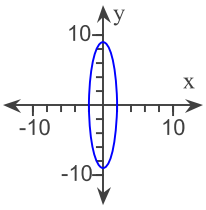
2. Graph the ellipse.

$$\frac{x^2}{4} + \frac{y^2}{81} = 1$$

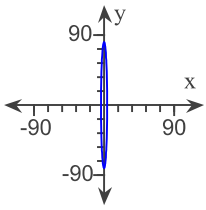
A.



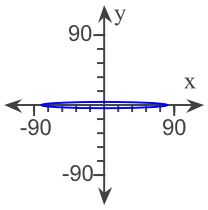
B.



C.



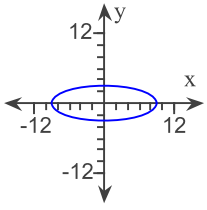
D.



3. Graph the ellipse.

$$81x^2 + 9y^2 = 729$$

A.



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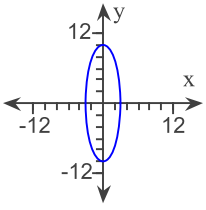

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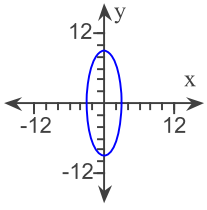
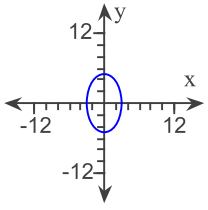


D.



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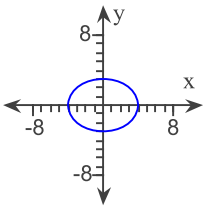
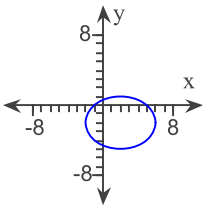
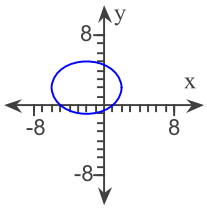
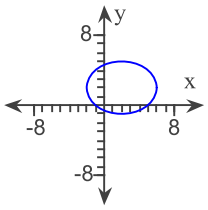
4. Graph the ellipse.

$$\frac{(x+2)^2}{16}+\frac{(y-2)^2}{9}=1$$

A. 

B. 

C. 

D. 

5. Write an equation for the ellipse with x-intercepts ± 4 and y-intercepts ± 6.

A. $\frac{x^2}{4}+\frac{y^2}{6}=1$

B. $\frac{x^2}{6}+\frac{y^2}{4}=1$

C. $\frac{x^2}{16}+\frac{y^2}{36}=1$

D. $\frac{x^2}{36}+\frac{y^2}{16}=1$

6. Write an equation for the ellipse with foci at $(\pm 6,0)$ and x-intercepts ± 10.

A. $\frac{x^2}{10}+\frac{y^2}{8}=1$

B. $\frac{x^2}{8}+\frac{y^2}{10}=1$

C. $\frac{x^2}{100}+\frac{y^2}{64}=1$

D. $\frac{x^2}{64}+\frac{y^2}{100}=1$

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7. Write an equation for the ellipse with a major axis length of 10 and foci at $(-3,0)$ and $(-3,-6)$.

A. $\dfrac{(x+3)^2}{25}+\dfrac{(y-3)^2}{16}=1$

B. $\dfrac{(x+3)^2}{16}+\dfrac{(y-3)^2}{25}=1$

C. $\dfrac{(x+3)^2}{16}+\dfrac{(y+3)^2}{25}=1$

D. $\dfrac{(x-3)^2}{16}+\dfrac{(y+3)^2}{25}=1$