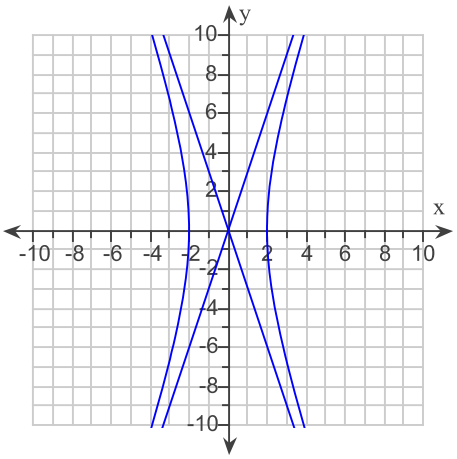
Student: _____
Date: _____
Time: _____

Instructor: Fred Khoury
Course: Math 2312-1000 Precalculus (Fall - 2015)
Book: Lial: College Algebra and Trigonometry, 4e

Assignment: Quiz Sec 4.7

1. Find the equation of the graph.



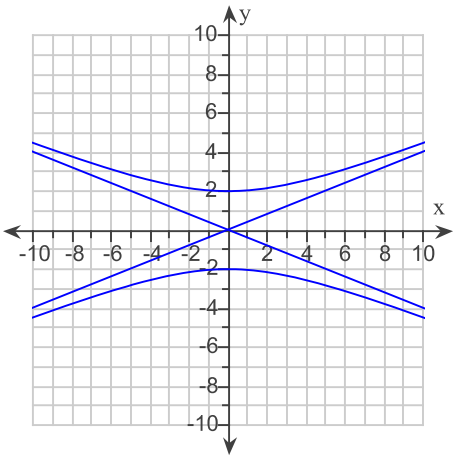
A. $\frac{x^2}{36}+\frac{y^2}{4}=1$

B. $\frac{x^2}{4}-\frac{y^2}{36}=1$

C. $\frac{x^2}{4}+\frac{y^2}{36}=1$

D. $\frac{x^2}{36}-\frac{y^2}{4}=1$

2. Find the equation of the graph.



A. $\frac{y^2}{25}-\frac{x^2}{4}=1$

B. $\frac{y^2}{4}-\frac{x^2}{25}=1$

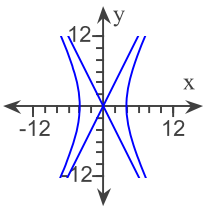
C. $\frac{x^2}{25}+\frac{y^2}{4}=1$

D. $\frac{x^2}{4}-\frac{y^2}{25}=1$

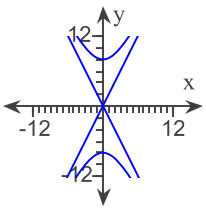
3. Graph the hyperbola.

$$\frac{x^2}{64}-\frac{y^2}{16}=1$$

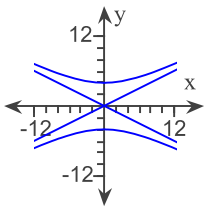
A.



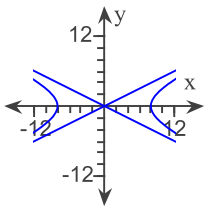
B.



C.



D.



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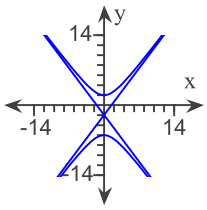
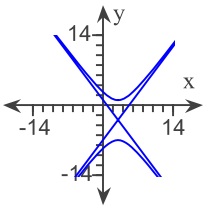
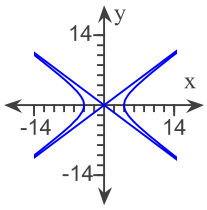
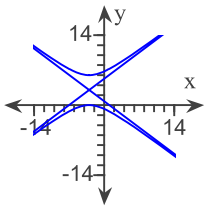
4. Graph the hyperbola.

$$\frac{(y+3)^2}{16} - \frac{(x-3)^2}{9} = 1$$

A. 

B. 

C. 

D. 

5. Find the center, foci, and asymptotes of the hyperbola.

$$\frac{(x+5)^2}{9} - \frac{(y-4)^2}{16} = 1$$

A. center: $(-5,4)$; foci: $(-10,4), (0,4)$; asymptotes: $y = \frac{4}{3}x + \frac{32}{3}, y = -\frac{4}{3}x - \frac{8}{3}$

B. center: $(-5,4)$; foci: $(4,-9), (4,-1)$; asymptotes: $y = \frac{16}{9}x + \frac{32}{3}, y = -\frac{16}{9}x - \frac{8}{3}$

C. center: $(4,-5)$; foci: $(-9,4), (-1,4)$; asymptotes: $y = \frac{16}{9}x + 8, y = -\frac{16}{9}x - 2$

D. center: $(4,-5)$; foci: $(4,-10), (4,0)$; asymptotes: $y = \frac{3}{4}x + 8, y = -\frac{3}{4}x - 2$