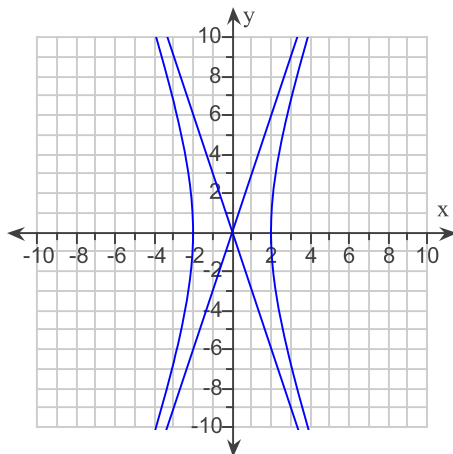


Student: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

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

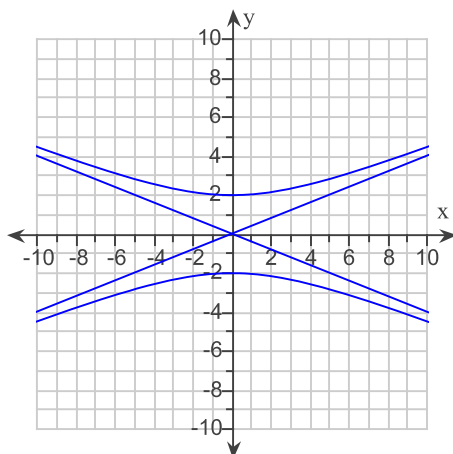
Assignment: Quiz Sec 4.7

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.

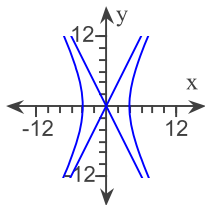


- ☐ A.  $\frac{y^2}{25} - \frac{x^2}{4} = 1$   
☐ B.  $\frac{y^2}{4} - \frac{x^2}{25} = 1$   
☐ C.  $\frac{x^2}{25} + \frac{y^2}{4} = 1$   
☐ D.  $\frac{x^2}{4} - \frac{y^2}{25} = 1$

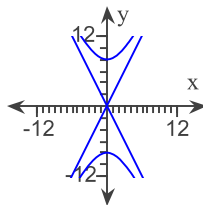
3. Graph the hyperbola.

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

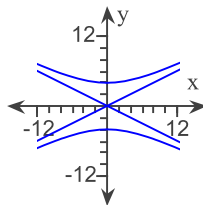
☐ A.



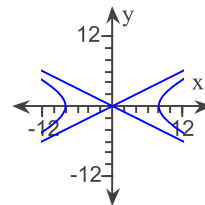
☐ B.



☐ C.



☐ D.



**Student:** \_\_\_\_\_  
**Date:** \_\_\_\_\_  
**Time:** \_\_\_\_\_

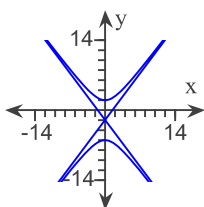
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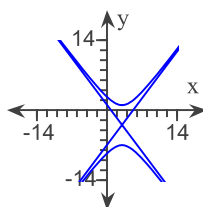
4. Graph the hyperbola.

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

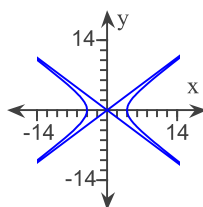
☐ A.



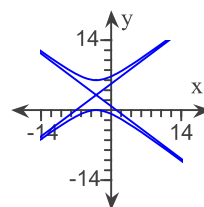
☐ B.



☐ 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:  $y = \frac{3}{4}x + 8$ ,  $y = -\frac{3}{4}x - 2$

**Student:** \_\_\_\_\_  
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**Assignment:** Quiz Sec 4.7

1. B

2. B

3. D

4. B

5. A