

Algebra 2C
Practice Quiz on 10-5

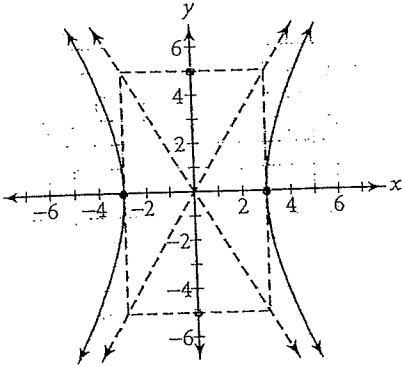
Name: _____

Date: _____ Hr: _____

SHOW ALL WORK

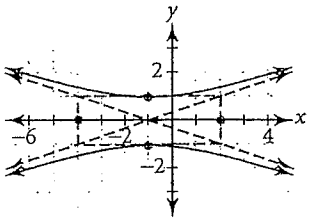
For #1-8, write the standard form equation for each hyperbola.

1.



1. _____

2.



2. _____

3. vertices: $(-3, 0)$ and $(3, 0)$
 co-vertices: $(0, -5)$ and $(0, 5)$

3. _____

4. vertices: $(0, -4)$ and $(0, 4)$
 foci: $(0, -5)$ and $(0, 5)$

4. _____

5. co-vertices: $(0, -2)$ and $(0, 2)$
 foci: $(-3, 0)$ and $(3, 0)$

5. _____

6. center: (2, 3); vertices (-1, 3) and (5, 3)
co-vertices: (2, -2) and (2, 8)

6. _____

7. $4x^2 - 9y^2 - 8x + 54y = 113$

7. _____

8. $4y^2 - 36x^2 - 72x + 8y = 176$

8. _____

For #9-10, Identify the a.) center, b.) vertices, c.) co-vertices, d.) foci, and e.) asymptotes for each hyperbola. Then, f.) graph each hyperbola by hand.

9. $\frac{y^2}{9} - \frac{x^2}{25} = 1$

9. a. _____

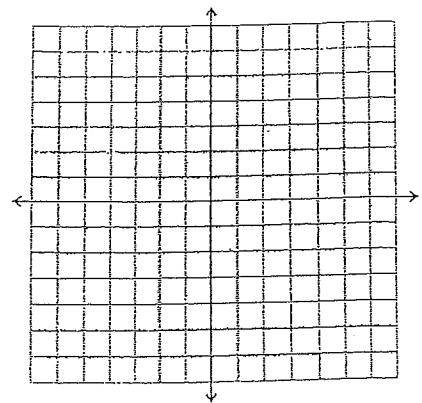
b. _____

c. _____

d. _____

e. _____

f.



$$10. \frac{(x-1)^2}{4} + \frac{(y+2)^2}{9} = 1$$

10. a. _____

b. _____

c. _____

d. _____

e. _____

