

**Algebra 2C**  
**Practice Quiz on 10-3 and 10-4**

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Hr: \_\_\_\_\_

SHC ALL WORK

For #1-write the standard form equation of each circle.

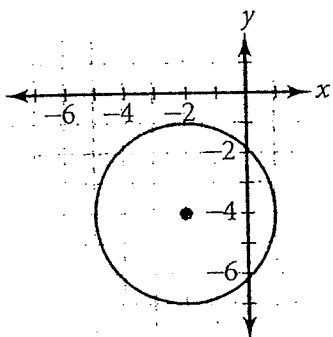
1. Center (5, -2), radius 8

1. \_\_\_\_\_

2.  $x^2 + y^2 = 1$  translated left 5 units and up 3 units

2. \_\_\_\_\_

3.



3. \_\_\_\_\_

4.  $x^2 + 12x + y^2 + 4y = -31$

4. \_\_\_\_\_

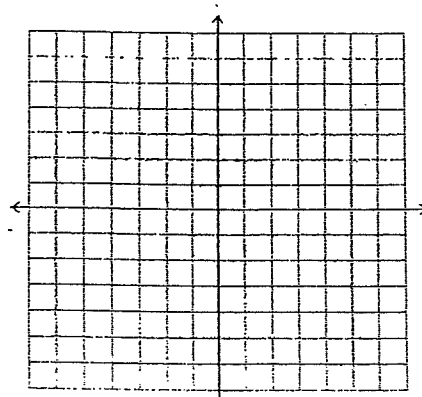
For #5, identify a.) the center and b.) the radius of the circle. Then, c.) graph the circle by hand.

5.  $(x - 4)^2 + (y + 2)^2 = 36$

5. a. \_\_\_\_\_

b. \_\_\_\_\_

c.



For #6-10, write the equation of an ellipse with the given characteristics.

6. vertices  $(\pm 4, 0)$ , co-vertices  $(0, \pm 3)$

6. \_\_\_\_\_

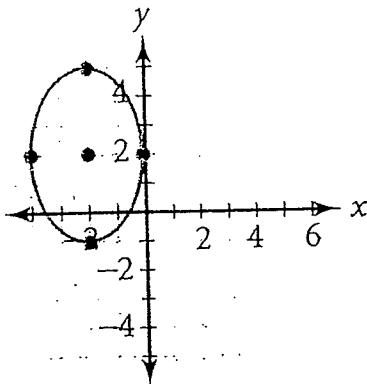
7. foci  $(0, \pm 8)$ , co-vertices  $(\pm 8, 0)$

7. \_\_\_\_\_

8. vertices  $(-5, 1)$  and  $(1, 1)$ , focus  $(-3, 1)$

8. \_\_\_\_\_

9.



9. \_\_\_\_\_

10.  $x^2 + 4y^2 + 6x - 8y = 3$

10. \_\_\_\_\_

For #11-12, identify the a.) center, b.) vertices, c.) co-vertices, and d.) foci for each ellipse. Then, d.) graph each ellipse by hand.

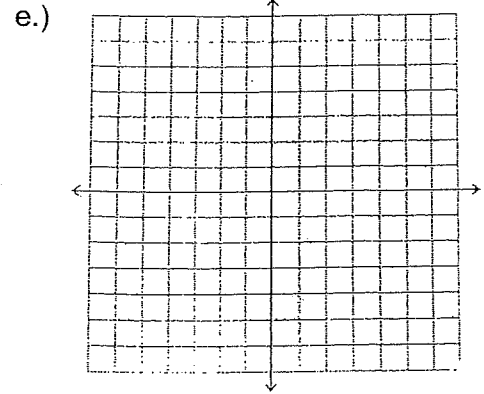
11.  $\frac{x^2}{4} + \frac{y^2}{9} = 1$

11. a.) \_\_\_\_\_

b.) \_\_\_\_\_

c.) \_\_\_\_\_

d.) \_\_\_\_\_



12.  $\frac{(x-1)^2}{25} + \frac{(y+3)^2}{9} = 1$

12. a.) \_\_\_\_\_

b.) \_\_\_\_\_

c.) \_\_\_\_\_

d.) \_\_\_\_\_

