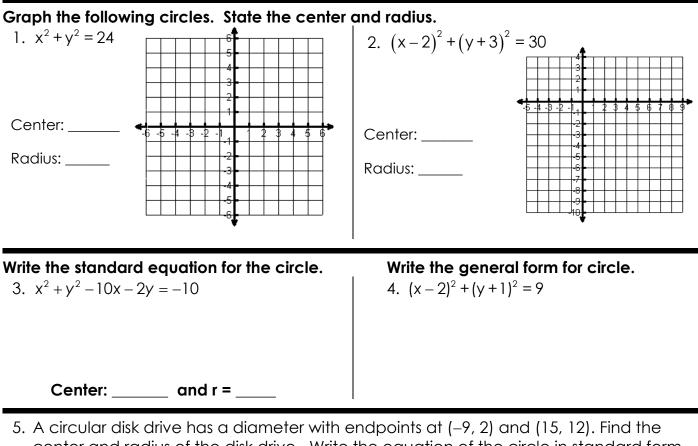
Name: \_\_\_\_\_ Per: \_\_\_\_\_ Date: \_\_\_\_\_

## **Coordinate Plane Review**



center and radius of the disk drive. Write the equation of the circle in standard form.

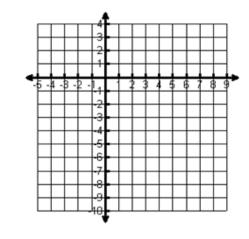
Center: \_\_\_\_\_

r = \_\_\_\_\_

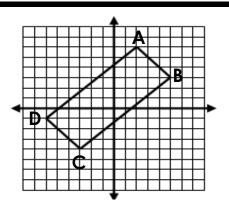
Equation:

6. State the center and radius:  $(x-3)^2 + (y+5)^2 = 36$ 

7. Graph:  $(x-4)^2 + (y+1)^2 = 16$ 



8. Determine what type of quadrilateral is shown:

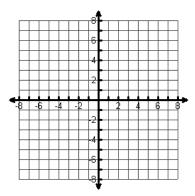


- a) Find the perimeter and area of the shape.
- Find the midpoint of the points.
  a. (-5, 3) (2, 6)

b. (3, -2) (-1, 5)

- 10. Find the coordinates of the <u>other endpoint</u> of a segment with an endpoint of (-1,5) and a midpoint (2,-3).
- 11. Josh and Drake decide to play catch after school. They start at the same point. Josh walks 50 feet north and 20 feet west. Drake walks 40 feet south and 10 feet east. How far apart are they?
- 12. Determine whether Point A lies on the circle whose center is Point C and which contains the Point P(0, 4). Justify your answer algebraically showing work.

Point A(3,  $\sqrt{7}$ ); Point C(0, 0); Point P(0, 4)



13. Find the equation of the line that is **parallel** to y = 2x + 8 that passes through (-6, 1).

- 14. Find the equation of the line that is **perpendicular** to y = 3x + 1 that passes through (9,5).
- 15. Find the coordinates of point T so that it partitions AB into a ratio of 1:3. A (-8, -1) and B(12, 11)