- Which figure could NOT represent the Cross-section of a cylinder?
 - A. A circle
 - B. A semicircle
 - C. An ellipse
 - D. A rectangle

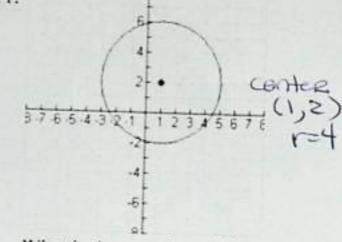
10. Find the center and radius of a circle with the

Equation.
$$x^2 + y^2 + 6x - 8y + 16 = 0$$

$$x^{2}+6x+\frac{9}{9}+y^{2}-8y+16=-16+16+9$$

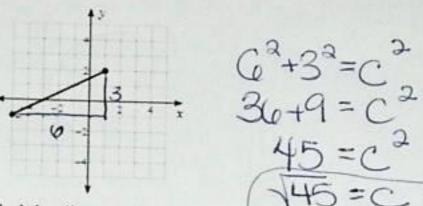
$$(x+3)^{2}+(y-4)^{2}=9$$

11.

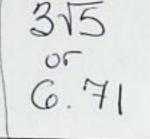


What is the equation of the graph?

$$(x-1)^2+(x-2)^2=16$$

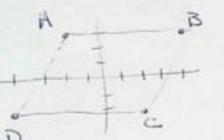


Find the distance between each pair of or points.



both partopp. sides are parallel.

Prove that $\underline{A}(-2, 3)$, B(4, 3), C(2, -2) and $\underline{D}(-4, -2)$ are the vertices of a *parallelogram*.



$$m_{40} = \frac{-3-3}{-4+2} = \frac{-5}{2} = \frac{5}{2}$$

$$m_{\overline{00}} = \frac{-2+2}{-4-2} = 0$$

Since the slopes of both pairs of MAB = 3-3 = 0 - opposite sides The quadrilateral is a parallelogran.