

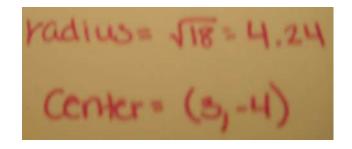
MODELING GEOMETRY

1. Write the equation of the circle with center (3, -7) and radius 25.

1.
$$(X-3)^2 + (y+7)^2 = 625$$
1) take opposite signs of the center 2) square your radius

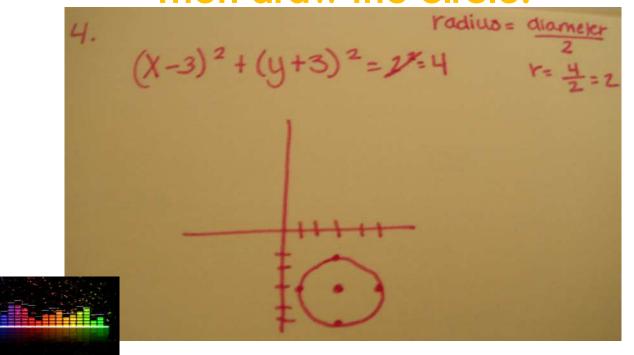
3. What is the radius and center for the circle?

$$(x-3)^2 + (y+4)^2 = 18$$





4. Write the equation of the circle with the center (3, -3) and Diameter 4 cm.
Then draw the circle.



What is the center of the circle given by the equation $x^2 + y^2 - 10x - 11 = 0$?

A.
$$(5,0)$$

B.
$$(0, 5)$$

$$\mathbf{C.} \ (-5,0)$$

D.
$$(0, -5)$$

5.
$$X^{2} + y^{2} - 10x - 1X = 0$$

 $+ x(1 + 1)$
 $X^{2} - 10x + y^{2} = 11$
 $(x^{2} - 10x + 25) + y^{2} = 11 + 25$
 $(-\frac{10}{2})^{2} = (-5)^{2} = 25$
 $(x - 5)^{2} + y^{2} = 36$
 $(5,0)$ A.

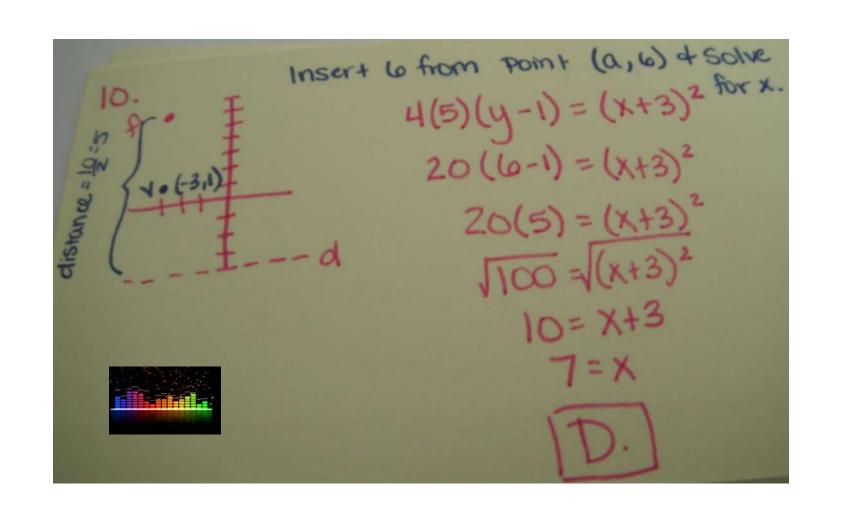
8.
$$(x+2)^{2} + (y-3)^{2} = 9$$

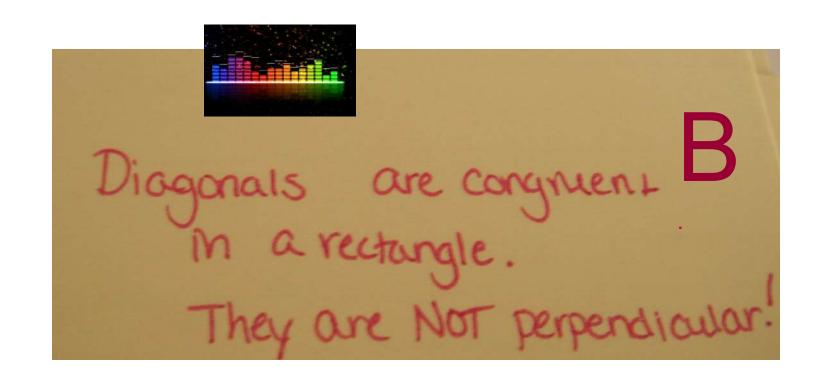
 $(x+4) + 4(y-3)^{2} = 9$
 $(x+4) + 4($

9.

A Straight line can only intersect a circle 2 times

[C.]





13. Which point is on a circle with a center of (3, -9) and a radius of 5?

A. (-6, 5)

B. (-1, 6)

C. (1, 6)

D. (6, -5)

