

Write Equations HW *2

Name: _____ #7

Write the equation of the circle given the following information:

1. Center at (2,0) and radius of 7
2. Center at origin and circle goes through the point (2,3)
3. Center at origin and radius of 10
4. Center at (0,5) and circle goes through the point (-1,2)
5. Center at (-4,5) and radius of 2
6. Center at (1, -3) and goes through the point (4,0)

State the center and the radius

7. $(x - 4)^2 + (y - 3)^2 = 16$

8. $x^2 + (y + 2)^2 = 20$

9. $(x + 5)^2 + (y - 6)^2 = 27$

10. $x^2 + y^2 = 9$

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1) $C:(2,0)$, $r=7$

$$(x-2)^2 + y^2 = 49$$

2) $C:(0,0)$, Point: $(2,3)$

$$x^2 + y^2 = r^2$$

$$(2)^2 + (3)^2 = r^2$$

$$4 + 9 = r^2$$

$$13 = r^2$$

$$x^2 + y^2 = 13$$

3) $C:(0,0)$, $r=10$

$$x^2 + y^2 = 100$$

1) $C:(0,5)$, Point: $(-1,2)$

$$(x-0)^2 + (y-5)^2 = r^2$$

$$(-1-0)^2 + (2-5)^2 = r^2$$

$$(-1)^2 + (-3)^2 = r^2$$

$$1 + 9 = r^2$$

$$10 = r^2$$

$$x^2 + (y-5)^2 = 10$$

5) $C:(-4,5)$, $r=2$

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

6) $C:(1,-3)$, Point: $(4,0)$

$$(x-1)^2 + (y+3)^2 = r^2$$

$$(4-1)^2 + (0+3)^2 = r^2$$

$$(3)^2 + (3)^2 = r^2$$

$$9 + 9 = r^2$$

$$18 = r^2$$

$$(x-1)^2 + (y+3)^2 = 18$$

7) $C:(4,3)$, $r=4$

8) $C:(0,-2)$, $r = \sqrt{20}$
 $= 2\sqrt{5}$

9) $C:(-5,6)$, $r = \sqrt{27}$
 $= 3\sqrt{3}$

10) $C:(0,0)$, $r=3$