



Determine the equation of a circle from its centre and radius

1

What does the variable 'r' signify in this formula?

$$(x - h)^2 + (y - k)^2 = r^2$$
$$r = ?$$

A The y-coordinate of the center

B The radius of the circle

2

What would the graph of this equation look like?

$$(x - h)^2 + (y - k)^2 = r^2$$

A A circle with center at (h,k) and radius r

B A circle with center at (k,h) and radius r

C A circle with center at (r,k) and radius h

3

What would the center coordinate of this circle graph be?

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

A $C = (2, -2)$

B $C = (2, 5)$

C $C = (-2, 2)$

4

What would the radius of this circle graph be?

$$(x + 6)^2 + (y - 4)^2 = 3^2$$

A $r = 9$

B $r = 6$

C $r = 4$

D $r = 3$

5

Which equation would have this radius?

$$r = 5$$

A $(x - 4)^2 + (y - 5)^2 = 12^2$

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

6

Which equation would have this center coordinate and radius?

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

A $(x - 2)^2 + (y)^2 = 8^2$

B $(x - 2)^2 + (y)^2 = 1^2$

7

Which equation would have this center coordinate?

$$C = (2, 3)$$

A $(x - 2)^2 + (y - 3)^2 = 7^2$

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

8

Which equation would have this center coordinate and radius?

$$C = (-2, -4)$$
$$r = 1$$

A $(x - 2)^2 + (y + 4)^2 = 1^2$

B $(x + 2)^2 + (y + 4)^2 = 1^2$



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9

Which equation would have this center coordinate?

$$C = (-6, -4)$$

A

$$(x + 6)^2 + (y + 4)^2 = 3^2$$

B

$$(x - 6)^2 + (y - 4)^2 = 3^2$$

10

Which equation would have this center coordinate and radius?

$$C = (-6, 1)$$

$$r = 2$$

A

$$(x - 6)^2 + (y + 1)^2 = 2^2$$

B

$$(x + 6)^2 + (y - 1)^2 = 2^2$$

11

Which equation would have this center coordinate?

$$C = (-6, 5)$$

A

$$(x - 6)^2 + (y + 5)^2 = 3^2$$

B

$$(x + 6)^2 + (y - 5)^2 = 3^2$$

12

Which equation would have this center coordinate and radius?

$$C = (5, 1)$$

$$r = 3$$

A

$$(x - 5)^2 + (y + 1)^2 = 3^2$$

B

$$(x - 5)^2 + (y - 1)^2 = 3^2$$