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新东方在线

circle equation

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1. $(x-17)^2+(y-19)^2=49$

A circle in the *xy*-plane has the equation shown above. How long is the radius of the circle?

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2. $(x+16)^2+(y-25)^2=36$

A circle in the xy-plane has the equation shown above. Which of the following correctly describes the location of the center of the circle and the length of its radius?

A. Center:(16,-25)
Radius:6

B. Center:(-16,25)
Radius:36

C. Center:(-16,25)
Radius:6

D. Center:(16,-25)
Radius:36

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3. $(x+55)^2+(y-11.5)^2=121$

A circle in the xy-plane has the equation shown above. What is the length of the diameter of the circle?

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4.A circle in the xy-plane has its center at (44,-34) and radius$\sqrt{3}$
. Which of the following is an equation of the circle?

A. $(x+34)^2+(y-44)^2=3$

B. $(x+34)^2+(y-44)^2=\sqrt{3}$

C. $(x-44)^2+(y+34)^2=3$

D. $(x-44)^2+(y+34)^2=\sqrt{3}$

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5.A circle in the xy-plane has its center on the line y=1.If the point(2,3)lies on the circle and the radius is4, which of the following could be the center of the circle?

A.(2,1)

B.(2,-3)

C.(4,1)

D.(4,-1）

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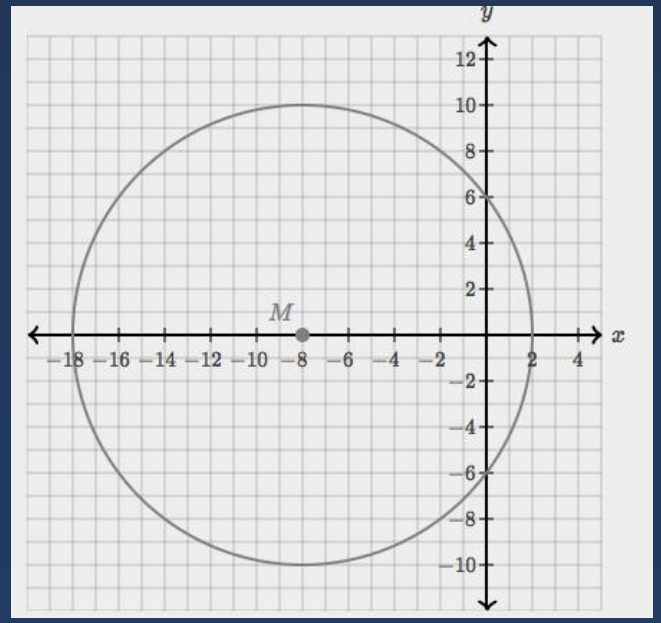
6.A circle with center M is graphed in the xy-plane below.



A. $(x+8)^2+y^2=100$
B. $(x+8)^2+(y+8)^2=100$
C. $(x+8)^2+(y-6)^2=100$
D. $(x+8)^2+(y+6)^2=100$

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7.A circle in the xy-plane has the equation $x^2+y^2-14y-51=0$

What is the center of the circle?

A.(51,14)

B.(7,10)

C.(0,0)

D.(0,7)

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8.A circle in the xy-plane has its center at the point(-6,1). If the point (7,12) lies on the circle, what is the radius of the circle? Round the answer to the nearest tenth.

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9.A circle in the xy-plane has its center on the line x=3. If the point (4,5) lies on the circle and the radius is $\sqrt{2}$, which of the following could be the center of the circle?

A.(3,3)

B.(3,4)

C.(3,5)

D.(3,7)

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10.A circle in the xy-plane has the equation: $x^2+y^2-22x+30y+90=0$
How long is the diameter of the circle?

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11.A circle in the xy-plane has the equation $4x^2 + 4y^2 - 24x = 28$.What is the diameter of the circle?

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12.A circle in the xy-plane has a diameter with endpoints at(16,−25) and(4,13). Which of the following is an equation of the circle?

A. $(x+6)^2+(y-10)^2=397$

B. $(x-10)^2+(y-6)^2=1588$

C. $(x-10)^2+(y+6)^2=1588$

D. $(x-10)^2+(y+6)^2=397$

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13.A circle in the xy-plane has the equation: $2x^2 + 2y^2 - 8x - 5y - \frac{55}{8} = 0$

What is the diameter of the circle?

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14.A circle in the xy-plane has the equation: $x^2+y^2-10x+34y-527=0$.If the y-coordinate of a point on the circle is−38, what is a possible x-coordinate?

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