

Circle equations

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

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

A circle in the xy -plane has the equation $(x + 17.5)^2 + (y - 15.\bar{3})^2 = 18.1$. Which of the following best describes the location of the center of the circle and the length of its radius?

(A) Center: $(-17.5, 15.\bar{3})$
Radius: $\sqrt{18.1}$

(B) Center: $(-17.5, 15.\bar{3})$
Radius: 18.1

(C) Center: $(17.5, -15.\bar{3})$
Radius: $\sqrt{18.1}$

(D) Center: $(17.5, -15.\bar{3})$
Radius: 18.1

A circle in the xy -plane has the equation:

$$3.5(x + 2.2)^2 + 3.5(y - 11.1)^2 - 21 = 0$$

What is the radius of the circle? Round the answer to the nearest tenth.

Circle equations

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

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

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