

SAMPLE ITEMS

1. Which is an equation for the circle with a center at $(-2, 3)$ and a radius of 3?

- A. $x^2 + y^2 + 4x - 6y + 22 = 0$
- B. $2x^2 + 2y^2 + 3x - 3y + 4 = 0$
- C. $x^2 + y^2 + 4x - 6y + 4 = 0$
- D. $3x^2 + 3y^2 + 4x - 6y + 4 = 0$

Correct Answer: C

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

- A. $(5, 0)$
- B. $(0, 5)$
- C. $(-5, 0)$
- D. $(0, -5)$

Correct Answer: A