

Question ID 9e44284b

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Circles	<div><div></div><div></div><div></div></div>

ID: 9e44284b

In the  $xy$ -plane, the graph of  $2x^2 - 6x + 2y^2 + 2y = 45$  is a circle. What is the radius of the circle?

- A. 5
- B. 6.5
- C.  $\sqrt{40}$
- D.  $\sqrt{50}$

ID: 9e44284b Answer

Correct Answer: A

Rationale

Choice A is correct. One way to find the radius of the circle is to rewrite the given equation in standard form,  $(x - h)^2 + (y - k)^2 = r^2$ , where  $(h, k)$  is the center of the circle and the radius of the circle is  $r$ . To do this, divide the original equation,  $2x^2 - 6x + 2y^2 + 2y = 45$ , by 2 to make the leading coefficients of  $x^2$  and  $y^2$  each equal to 1:  $x^2 - 3x + y^2 + y = 22.5$ . Then complete the square to put the equation in standard form. To do so, first rewrite  $x^2 - 3x + y^2 + y = 22.5$  as  $(x^2 - 3x + 2.25) - 2.25 + (y^2 + y + 0.25) - 0.25 = 22.5$ . Second, add 2.25 and 0.25 to both sides of the equation:  $(x^2 - 3x + 2.25) + (y^2 + y + 0.25) = 25$ . Since  $x^2 - 3x + 2.25 = (x - 1.5)^2$ ,  $y^2 + y + 0.25 = (y + 0.5)^2$ , and  $25 = 5^2$ , it follows that  $(x - 1.5)^2 + (y + 0.5)^2 = 5^2$ . Therefore, the radius of the circle is 5.

Choices B, C, and D are incorrect and may be the result of errors in manipulating the equation or of a misconception about the standard form of the equation of a circle in the  $xy$ -plane.

Question Difficulty: Hard

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