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SAT数学

张斯乐

4.Additional Topics in Math

4.3 Circle Equations

Standard equation of circle: $(x - a)^2 + (y - b)^2 = r^2$,
where the center is (a,b) and radius is r.

4.3 Circle Equations

1. $x^2 + 20x + y^2 + 16y = -20$

The equation above defines a circle in the xy-plane.
What are the coordinates of the center of the circle?

4.3 Circle Equations

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

4.3 Circle Equations

3.A circle in the xy-plane has equation $(x + 3)^2 + (y - 1)^2 = 25$. Which of the following points does NOT lie in the interior of the circle?

4.3 Circle Equations

4. $$(x-6)^2+(y+5)^2=16$$

In the xy-plane, the graph of the equation above is a circle. Point P is on the circle and has coordinates $(10,-5)$. If $\overline{PQ}$ is a diameter of the circle, what are the coordinates of point Q ?

4.3 Circle Equations

5. An angle with a measure of $\frac{7\pi}{6}$ radians has a measure of d degrees, where $0 \leq d < 360$. What is the value of d ?

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Thanks

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