

Name Answer KeySection 32-37

MUST SHOW WORK TO ENSURE FULL CREDIT.

1. (3 pts.) Determine the center and diameter of a circle given by the following equation, expressing the exact value in simplest form.

$$x^2 + y^2 - 6x - 3 = 0$$

$$x^2 - 6x + y^2 = 3$$

$$x^2 - 6x + 9 + y^2 = 3 + 9$$

$$(x-3)^2 + y^2 = 12 \quad (+1)$$

$$r^2 = 12 \quad r = \sqrt{12} = 2\sqrt{3}$$

1) Center (3, 0) (+1)
Diameter $4\sqrt{3}$ (+1)

2. The location on a grid for the local restaurant, dormitory and gym are given by the coordinate pairs (2, 3), (5, 7) and (-1, 6), where the distance between locations is measured in miles.

- a. (4 pts.) Is the restaurant closest to the dormitory or the gym? Explain why numerically.

Distance: Restaurant \rightarrow Dormitory = $\sqrt{3^2 + 4^2} = \sqrt{25} = 5$ (+1)

Distance: Restaurant \rightarrow Gym = $\sqrt{3^2 + 3^2} = \sqrt{18}$ (+1)

$$\sqrt{18} < \sqrt{25} \quad (+1)$$

Restaurant closer to Gym (+1)

- b. (3 pts.) How many minutes would it take to reach the local restaurant from the gym if you are driving your car at 25 miles per hour? Express your answer accurate to the nearest minute.

$$\text{Time} = \frac{\text{Distance}}{\text{Rate}} = \frac{\sqrt{18}}{25} = .1697 \text{ hrs} \times 60 = 10.18 \text{ minutes}$$

(+1) (+1)

2b) 10 minutes (+1)

Amu Math 111 Answers

R Bogdan



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