

**Time Limit:** 4 minutes

**Instructions:** Closed book, notes. No calculator allowed.

Instructions for all quizzes: **Do not discuss any aspect of this quiz with other midshipmen until after 6th period.**

Print your last name above. Also, fill in the bubble for your section.

Fill the bubble for the correct answer. Write your answers in any blanks provided.

Your work will not be graded unless requested.

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1. How far is the point  $(2, -2, 1)$  from the origin?

- 1     $\sqrt{5}$      $\sqrt{6}$     3    5    6    9

2. Find the radius and center of the sphere

$$x^2 + y^2 + z^2 + 4x - 6y = 12$$

The center of the sphere is  $(a, b, c) = ( \quad , \quad , \quad )$ .

The radius of the sphere is  $r = \underline{\hspace{2cm}}$ .

SHOW YOUR WORK BELOW