

Time Limit: 4 minutes

Instructions: Calculator allowed. Closed book. Closed notes.

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. Also, write your answers in any blanks provided.

Your work will not be graded unless the instructions request you show your work.

This quiz deals with the point $P = (0, 1, 5)$ and the plane

$$3x + 2y + 6z = 130.$$

1. Give parametric equations for the line through P perpendicular to the plane.
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2. Find the point on the plane that is closest to P .

Put your answer here: (, ,)

Show your work below.