

Time Limit: 5 minutes

Instructions: Closed book. Closed 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. Also, write your answers in any blanks provided.

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

Throughout this quiz we let

$$f(x, y) = e^{x^2+3xy}.$$

Fill in the correct bubble. Also, show your work!

1. Compute $f_x(5, 2)$.

$10e^{55}$ $15e^{55}$ $16e^{55}$ $55e^{55}$ $100e^{55}$ none of above; correct is _____

2. Compute $f_y(5, 2)$.

$15e^{55}$ $16e^{55}$ $20e^{55}$ $50e^{55}$ $100e^{55}$ none of above; correct is _____

3. Compute $f_{xy}(5, 2) - f_{yx}(5, 2)$.

$-10e^{55}$ $10e^{55}$ $12e^{55}$ $15e^{55}$ $16e^{55}$ none of above; correct is _____