## MA 16010 Quiz 4 (Lessons 7–9)

Write your name, section number (399 for 8:30, 418 for 9:30), and quiz number on the top of your quiz, front and back.

You may use a one-line calculator.

1. Compute the derivative f'(x) when

$$f(x) = x^2 \cos(x) + 3e^x .$$

2. A particle is moving in a particular direction, and its position function (in meters, depending on time t in seconds) is

$$s(t) = -t^2 + 7t + 4.$$

Find its velocity ("speed") function v(t).

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