Quiz 5

Name:

1. Let
$$f(x) = 3x^3 - 4x^2 + x - 7$$
.

- (a) Compute f'(x).
- (b) What is the slope of f(x) when x = 1? What does that tell you?

2. Let
$$f(x) = 3^x + \frac{3}{\sqrt[3]{x^2}}$$
.

- (a) Compute f'(x).
- (b) What is the slope of f(x) when x = 1? What does that tell you?

3. Let
$$f(x) = e^x - x^e$$
.

- (a) Compute f'(x).
- (b) What is the slope of f(x) when x = 1? What does that tell you?