MTH 131 Sec 2,3 F09 Quiz 5 Name:

Find the following derivatives. Show your work (wherever reasonable).

1) $\frac{d}{dx}\left[5x^3 - 2x^4 + \frac{2}{x^2} + 3\sqrt{x} + 1 \right] =$

2) $\frac{d}{dt}\left[2.4^t - 0.2e^t - \ln(t) \right] =$

3) $\frac{d}{dx}\left[3\sin x - 0.5\cos x - x \right] =$

4) $\frac{d}{dx}\left[\sin(x^2 - x) \right] =$

5) $\frac{d}{dt}\left[\ln(2e^t + 1) \right] =$

6) $\frac{d}{dt}\left[e^{-0.05t} \right] =$