

Quiz 3A - MTH 1410

Name: _____

1) (4 points) Calculate $f'(x)$ if

$$f(x) = 7 \cdot e^{2x} \cdot \sin(x^3)$$

Simplify your answer by factoring out common factors (if any).

2) (3 points) Find $s'(t)$ if $s(t) = \frac{t^2 + 2t + 7}{t + 3}$. Simplify your answer.

3) (3 points) Find $\frac{dy}{dx}$ if $\cot y = 9y^2 + 4x^2$.