

You may complete this closed note quiz individually or with a group. If you work with a group, turn in one quiz sheet with everyone's name on it. Please show all relevant work, and mark answers clearly.

1: (5 points) Compute the following derivatives.

(a) $\frac{d}{dx} \left(\cos(x)e^{5x^2+9} \right)$

(b) $\frac{d}{dx} \left(\frac{\ln(x^2) + 5}{2x^5 - 15x^2} \right)$