Math 135, Calculus 1, Fall 2020

Weekly Quiz 10-20

Show all work: clearly indicate your answer and the reasoning used to arrive at the answer. Unsupported answers may not receive full credit.

Question 1. Find $f(4)$ and $f'(4)$, assuming that the tangent line to $y = f(x)$ at $a = 4$ has equation $y = 10x + 7$.

Question 2. Use the Product Rule to calculate $\frac{d}{dx}\left(\left(5x^3 + 2x^2\right) \cdot \left(1 + \frac{3}{x}\right)\right)$. Do not simplify.