$Quiz\ 3A, \underset{\text{Fall 2014 - Dr. Graham-Squire}}{Business} \underset{\text{Calculus}}{Calculus}$

1. (4 points) Let $f(x) = \frac{x^2 + 20}{x + 4}$. Find all values of x where the tangent line will be horizontal.

2. (3 points) Calculate $\frac{d}{dx}\left(\frac{7}{(x^3-4)^5}\right)$. Simplify your answer, if possible.

3. (3 points) Let $f(x) = (3x^7 - 2x + 4)^8 \sqrt{x^5 + 1}$. Find f'(x). You do NOT need to simplify your answer.