QUIZ 4 - MATH 112	Friday, September 30
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Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

- 1. Consider the function $f(x) = (x^3 3x^2)(x^2 + 1)$.
 - (a) Find the derivative f'(x) without using the product rule.

(b) Find the derivative f'(x) using the product rule. (Compare your answers in (a) and (b) to check they are correct.)

2. Find an equation for the tangent line to the graph of $f(x) = \frac{x+17}{x^2-3}$ at the point x = -1.