

Name:

Date:

Provide the requested information. Do not use notes, calculators, other people's work, or any other aids.

1. State the derivative of each function. Each derivative should start with $y' =$ or $\frac{dy}{dx} =$.
- (a) $y = x^7$ _____
- (b) $y = e^{-x}$ _____
- (c) $y = 2x^3 - 10x + 1021$ _____
- (d) $y = 5^x$ _____
- (e) $y = \tan x$ _____
- (f) $y = -\frac{3}{4}\cos(x)$ _____
- (g) $y = -8x^8 - 12x^3 - 2015$ _____
- (h) $y = 4^{3+e}$ _____
- (i) $y = \frac{x^{15} - 6x^{10}}{x^5}$ _____
- (j) $y = x^{2\pi}$ _____