

Name: _____

Score: _____

1. For each of the following functions $f(x)$, find its first derivative $f'(x)$ and second derivative $f''(x)$. (2 points each)
 - (a) $f(x) = -2x + 1$
 - (b) $f(x) = 3^x$
 - (c) $f(x) = x \cos x$
 - (d) $f(x) = \frac{x+1}{\sqrt{x}}$
 - (e) $f(x) = \frac{e^x}{x^3}$

