Name _____

- No calculators allowed.

- Show sufficient work to justify each answer.

- You have 15 minutes for this quiz.

1. (2 points each) Differentiate the following functions.

    (a) $y = (3x + 2)^7$

    (b) $g(x) = \tan^5 x$

2. (3 points each) Differentiate the following functions.

(a) $h(t) = t^4 e^{-3t}$

(b) $f(x) = \dfrac{1}{\sqrt[3]{\sin\left(e^{4x}\right)}}$