

Name: _____

NO CALCULATORS

1. [5 points each] Compute each of the following derivatives.

a. $(\sec \ln x^2)'$

b. $(\cosh 5x^6)'$

c. $((\tan x^3) \cdot e^{x^2})'$

d. $(\tan^{-1} t^5)'$

e. $(\sin^{-1} 4^x)'$

f. Let $y = x^x$. Find $\frac{dy}{dx}$.