

Name _____

ID# _____

Math 2250

Fall 2011

Quiz 1

Find $\frac{dy}{dx}$ in the following examples. Simplify where possible.

1. $y = \frac{2 \sin x}{2 + \cos x}$

2. $y = \ln(\tan(x^5))$

3. $y = x^3 \arcsin(x^3)$

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4. $x^3 y^3 = e^{(x^3 + y^3)}$

5. $y = (\tan x)^{\cos x}$