

# **CALCULUS Derivative Practice**

Name \_\_\_\_\_

1)  $y = x^2 \sin x$

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

3)  $y = \frac{2x^2 - 1}{x^3}$

4)  $y = \ln(3x^2 - x)$

5)  $y = \log x^2$

6)  $y = 8x^3$

7)  $y = 7^x$

8)  $y = 8^{3x^2}$

9)  $y = e^{5x}$

10)  $y = \arcsin x^4$

11)  $y = \arcsin 2x^5$

12)  $y = \arctan 2x^5$

$$13) \frac{d}{dx} \sin 3x^8$$

$$14) \frac{d}{dx} \cos 2^{5x}$$

$$15) \frac{d}{dx} \tan(\sin x)$$

$$16) \frac{d}{dx} \csc 2x$$

$$17) \frac{d}{dx} \sec(e^x)$$

$$18) \frac{d}{dx} \cot(\ln x)$$

$$19) y = x^{\cos x}$$

$$20) y = x^3 \sqrt{2x^5 + 1}$$