

Name: \_\_\_\_\_

## Calculus

### Answers to Your Try Problems for Chapter 3

$$3a/b) \frac{dy}{dx} = 8x^7 + 12x^3 - 12.5x^{1.5} + \frac{x}{3} + \frac{1}{5}x^{-4/5} - \frac{9}{x^4}$$

$$3d/e) \frac{dy}{dx} = e^x + 2xe^{x^2} - 10e^{-2x} - \frac{4}{x^3}e^{-6/x^2}$$

$$3f/g) \frac{dy}{dx} = 3 \cos x - 3 \sin 3x - 4x \sec x^2 \tan x^2$$

$$3h) \frac{dy}{dx} = \frac{5 \tan x}{2\sqrt{5x+2}} + \sec^2 x \sqrt{5x+2} + 6xe^{2x} + 6x^2 e^{2x}$$

$$3k) m = \frac{4\sqrt{2}}{3}$$

$$3L) \frac{dy}{dx} = \frac{1}{x\sqrt{x^2-1}} + \frac{2x}{x^2+4}$$

For additional practice see the derivative progression worksheets.