

Student Name: _____

Score: _____

Derivatives using Power Rule

Sheet 2

Find the derivatives using power rule:

$$y = \frac{8x^5 + 4x^4}{2x^2}$$

$$y = \frac{15x^7 + 21x^5 + 12x^3}{3x}$$

$$y = \frac{-22x^{-5}}{21x}$$

$$y = \frac{7x^2 + 5x^4}{4x^7}$$

$$y = \frac{5x^{-45} + 1}{x}$$

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$$y = \frac{\frac{2}{7}x^{-\frac{5}{11}} + \frac{16}{7}x^{-\frac{12}{11}}}{x^{-\frac{21}{11}}}$$

$$y = \frac{x^{\frac{7}{3}} + x^{\frac{10}{3}}}{\sqrt[3]{x}}$$

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Answer key

Derivatives using Power Rule

Sheet 2

$$\frac{dy}{dx} = 12x^2 + 4x$$

$$\frac{dy}{dx} = 30x^5 + 28x^3 + 8x$$

$$\frac{dy}{dx} = \frac{22}{21x^2}$$

$$\frac{dy}{dx} = \frac{-35}{4x^6}$$

$$\frac{dy}{dx} = \frac{-43}{x^{44}}$$

$$\frac{dy}{dx} = \frac{32}{77}x^{\frac{5}{11}} + \frac{144}{77}x^{-\frac{2}{11}}$$

$$\frac{dy}{dx} = 2x + 3x^2$$

$$x^{-\frac{5}{12}} - \frac{17}{8}x^{\frac{11}{6}}$$

$$-\frac{2}{15}x^{-\frac{13}{15}}$$

$$\frac{66}{x^{13}}$$

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