

Ex 1)
$$y = x^3$$

Ex 2) $y = x^{10}$
Ex 3) $y = \sqrt{x}$
Ex 4) $y = \frac{1}{x^3}$

Constant multiple rule $\frac{d}{dx} c \cdot f(x) = c \cdot \frac{d}{dx} f(x)$ Ex 5) $y = 5x^2$ Ex 6) $y = 3x^6$ Ex 7) $y = \frac{2}{x^3}$

Ex 8) $f(x) = 6x^3$ A) Find the slope at x = 2

B) Where is the slope of the tangent horizontal?