

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 <br> $\frac{d}{d x} c \cdot f(x)=c \cdot \frac{d}{d x} f(x)$

Ex5) $y=5 x^{2}$
Ex6) $y=3 x^{6}$
Ex7) $y=\frac{2}{x^{3}}$

Ex 8) $f(x)=6 x^{3}$
A) Find the slope at $x=2$
B) Where is the slope of the tangent horizontal?

