Differentiating x^n

Examples

1. $y = x^5$

2. $f(x) = x^{\frac{1}{2}}$

3. $y = 2x^6$

4. $f(x) = \frac{x}{x^4}$

5. $y = \sqrt{x^6}$

Test Your Understanding

1. $y = x^7$

2. $y = 3x^{10}$

3. $f(x) = \dfrac{x^{\frac{1}{2}}}{x^2}$

4. $y = ax^a$

5. $f(x) = \sqrt{49x^7}$