Differentiating $x^{n}$

Examples

1. $y=x^{5}$ 2. $f\left(x\right)=x^{\frac{1}{2}}$

3. $y=2x^{6}$ 4. $f\left(x\right)=\frac{x}{x^{4}}$

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

Test Your Understanding

1. $y=x^{7}$ 2. $y=3x^{10}$

3. $f\left(x\right)=\frac{x^{\frac{1}{2}}}{x^{2}}$ 4. $y=ax^{a}$

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