

Exercises 10.1: Differentiating Algebraic Functions

10.1 Differentiating functions (page 400)

1. Find the derivative of $y = 3x^2 + 5x - 7$

$\frac{dy}{dx} = 6x + 5$ (page 400, exercise 1)

2. Find the derivative of $y = 2x^3 + 4x^2 - 3x + 1$

$\frac{dy}{dx} = 6x^2 + 8x - 3$ (page 400, exercise 2)

3. $y = 5x^4 + 2x^3 - 7x^2 + 4x - 9$

$\frac{dy}{dx} = 20x^3 + 6x^2 - 14x + 4$

4. $y = \sqrt{x} + 2x^{\frac{3}{2}} - 5x^{-\frac{1}{2}}$

$\frac{dy}{dx} = \frac{1}{2\sqrt{x}} + 3\sqrt{x} + \frac{5}{2\sqrt{x}}$

5. Find the derivative of $y = \frac{1}{x^2}$

$\frac{dy}{dx} = -\frac{2}{x^3}$ (page 400, exercise 3)

6. Find the derivative of the function $y = \sqrt{\frac{2x^3 + 1}{x^2}}$

$\frac{dy}{dx} = \frac{3}{2\sqrt{x}}$

10.2 Differentiating with the chain rule (page 401)

1. Find the derivative of the following functions

a. $y = 3\sqrt{x} + 4x\sqrt{x}$ $\frac{dy}{dx} = 3\sqrt{x} + 5\sqrt{x}$ (page 401, exercise 1)

b. $y = \sqrt{x^3} + 4x\sqrt{x}$ $\frac{dy}{dx} = \frac{3}{2}\sqrt{x} + 5\sqrt{x}$ (page 401, exercise 2)

c. $y = 10\sqrt{x^3} + 4x\sqrt{x}$ $\frac{dy}{dx} = 15\sqrt{x} + 5\sqrt{x}$ (page 401, exercise 3)

d. $y = 10\sqrt{x^3} + 4x\sqrt{x}$ $\frac{dy}{dx} = 15\sqrt{x} + 5\sqrt{x}$ (page 401, exercise 4)

2. Differentiating the function $y = \sin(x^2)$ with the chain rule (page 402)

a. $y = \sin(x^2)$ $\frac{dy}{dx} = 2x \cos(x^2)$ (page 402, exercise 1)

b. $y = \cos(x^2)$ $\frac{dy}{dx} = -2x \sin(x^2)$ (page 402, exercise 2)

c. $y = \tan(x^2)$ $\frac{dy}{dx} = 2x \sec^2(x^2)$

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