

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. $y = \sqrt{x} = x^{1/2}$

$\frac{dy}{dx} = \frac{1}{2}x^{-1/2} = \frac{1}{2\sqrt{x}}$

5. $y = \frac{1}{x} = x^{-1}$

$\frac{dy}{dx} = -x^{-2} = -\frac{1}{x^2}$

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

$\frac{dy}{dx} = -\frac{2x}{(x^2 + 1)^2}$

10.2 Differentiating with the Chain Rule

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

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

2. $y = x^3 + 4x^2 - 3x + 1$ (page 400, exercise 2)

3. $y = 5x^4 + 2x^3 - 7x^2 + 4x - 9$ (page 400, exercise 3)

4. $y = \sqrt{x} = x^{1/2}$ (page 400, exercise 4)

5. Differentiating $y = \frac{1}{x^2 + 1}$ using the chain rule, rather than the quotient rule

$\frac{dy}{dx} = -\frac{2x}{(x^2 + 1)^2}$ (page 400, exercise 5)

6. $y = \sqrt{x} = x^{1/2}$ (page 400, exercise 6)

7. $y = \frac{1}{x} = x^{-1}$

$\frac{dy}{dx} = -\frac{1}{x^2}$

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Jicheng Xie

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Jicheng Xie.

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