

Problem Set Solutions: Differentiation 3

Differentiate the following using your knowledge of the differentiation rules that you have learned so far.

$$1. \quad f(x) = 2\sqrt{x} + 7\sqrt{x^3} - \frac{2}{x^2}$$

$$f(x) = 2x^{\frac{1}{2}} + 7x^{\frac{3}{2}} - 2x^{-2}$$

$$f'(x) = x^{-\frac{1}{2}} + \frac{21}{2}x^{\frac{1}{2}} + 4x^{-3}$$

$$f'(x) = \frac{1}{\sqrt{x}} + \frac{21\sqrt{x}}{2} + \frac{4}{x^3}$$

$$2. \quad y = \frac{x^2+7x-18}{x+9}$$

$$y = \frac{(x+9)(x-2)}{x+9}$$

$$y = x - 2$$

$$\frac{dy}{dx} = 1$$

$$3. \quad g(x) = \frac{x^{-3} + 7\sqrt[3]{x} - 4x^2}{2\sqrt{x}}$$

$$g(x) = \frac{x^{-3}}{2\sqrt{x}} + \frac{7\sqrt[3]{x}}{2\sqrt{x}} - \frac{4x^2}{2\sqrt{x}}$$

$$g(x) = \frac{1}{2}x^{-\frac{7}{2}} + \frac{7}{2}x^{-\frac{1}{6}} - 2x^{\frac{3}{2}}$$

$$g'(x) = -\frac{7}{4}x^{-\frac{9}{2}} - \frac{7}{12}x^{-\frac{7}{6}} - 3x^{\frac{1}{2}}$$

$$g'(x) = -\frac{7}{4\sqrt{x^9}} - \frac{7}{12\sqrt[6]{x^7}} - 3\sqrt{x}$$

$$4. \quad y = 5x^2 \cos(3x)$$

$$\frac{dy}{dx} = 10x \times \cos(3x) + 5x^2 \times 3(-\sin(3x))$$

$$\frac{dy}{dx} = 5x(2\cos(3x) - 3x\sin(3x))$$

$$5. \quad f(x) = 4x^4 - 5x^3 + 2x^2e^x$$

$$f'(x) = 16x^3 - 15x^2 + (4x \times e^x + 2x^2 \times e^x)$$

$$f'(x) = x^2(16x - 15) + 2xe^x(2 + x)$$

$$6. \quad y = \frac{x^2-3x+2}{x+3}$$

$$\frac{dy}{dx} = \frac{(2x-3)(x+3) - (x^2-3x+2)(1)}{(x+3)^2}$$

$$\frac{dy}{dx} = \frac{x^2+6x-11}{(x+3)^2}$$

$$7. \quad h(x) = \frac{\tan(2x+1)}{2x^2+1}$$

$$= \frac{2\sec^2(2x+1)(2x^2+1) - (4x)(\tan(2x+1))}{(2x^2+1)^2}$$

$$= \frac{2(2x^2+1)\sec^2(2x+1) - (4x)(\tan(2x+1))}{(2x^2+1)^2}$$

$$8. \quad f(x) = \frac{\ln(4x-3)}{-4x^2}$$

$$f'(x) = \frac{4 \times \frac{1}{4x-3} \times (-4x^2) - (-8x) \times \ln(4x-3)}{(-4x^2)^2}$$

$$f'(x) = \frac{-16x^2}{4x-3} + 8x \ln(4x-3)$$

$$f'(x) = \frac{-16x^2}{16x^4}$$

$$9. \quad y = (x+1)^4(x-2)^5$$

$$y' = 4(x+1)^3(x-2)^5 + (x+1)^4 \cdot 5(x-2)^4$$

$$y' = (x+1)^3(x-2)^4[4(x-2) + 5(x+1)]$$

$$y' = (x+1)^3(x-2)^4(9x-3)$$

$$y' = 3(x+1)^3(x-2)^4(3x-1)$$

$$10. \quad f(x) = \sin(xe^x)$$

$$f'(x) = \cos(xe^x) \times [(1)(e^x) + (x)(e^x)]$$

$$f'(x) = e^x(1+x) \cos(xe^x)$$

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 - Advantages of eBooks Over Traditional Books
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 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Analysis Problem And Solutions Download
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Carving Out Dedicated Reading Time
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 - Exploring Educational eBooks
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 - Integration of Multimedia Elements

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