Problem Set Solutions. Differentiation 3

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

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

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

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

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

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

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

   $y = x - 2$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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