ASSIGNED WORK

PART A

1. What rules do you know for calculating derivatives? Give examples of each rule.

2. Determine $f'(x)$ for each of the following functions:

   a. $f(x) = 4x - 7$
   b. $f(x) = x^3 - x^2$
   c. $f(x) = -x^2 + 5x + 8$
   d. $f(x) = \sqrt[3]{x}$
   e. $f(x) = \left(\frac{x}{2}\right)^4$
   f. $f(x) = x^{-3}$

3. Differentiate each function. Use either Leibniz notation or prime notation, depending on which is appropriate.

   a. $h(x) = (2x + 3)(x + 4)$
   b. $f(x) = 2x^3 + 5x^2 - 4x - 3.75$
   c. $s = t^2(t^2 - 2t)$
   d. $y = \frac{1}{5}x^5 + \frac{1}{3}x^3 - \frac{1}{2}x^2 + 1$
   e. $g(x) = 5(x^2)^4$
   f. $s(t) = \frac{t^5 - 3t^2}{2t}, t > 0$

4. Apply the differentiation rules you learned in this section to find the derivatives of the following functions:

   a. $y = 3x^{\frac{1}{3}}$
   b. $y = 4x^{-\frac{1}{4}} - \frac{6}{x}$
   c. $y = \frac{6}{x^3} + \frac{2}{x^2} - 3$
   d. $y = 9x^{-2} + 3\sqrt{x}$
   e. $y = \sqrt{x} + 6\sqrt{x^3} + \sqrt{2}$
   f. $y = \frac{1 + \sqrt{x}}{x}$

PART B

5. Let s represent the position of a moving object at time t. Find the velocity $v = \frac{ds}{dt}$ at time t.

   a. $s = -2t^2 + 7t$
   b. $s = 18 + 5t - \frac{1}{3}t^3$
   c. $s = (t - 3)^2$

6. Determine $f'(a)$ for the given function $f(x)$ at the given value of a.

   a. $f(x) = x^3 - \sqrt{x}, a = 4$
   b. $f(x) = 7 - 6\sqrt{x} + 5x^{\frac{2}{3}}, a = 64$

7. Determine the slope of the tangent to each of the curves at the given point.

   a. $y = 3x^4, (1, 3)$
   b. $y = \frac{1}{x^{-5}}, (-1, -1)$
   c. $y = \frac{2}{x}, (-2, -1)$
   d. $y = \sqrt{16x^3}, (4, 32)$

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SJ Ball

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