

## 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.  $y = 3x^{\frac{2}{3}}$
  - b.  $y = 4x^{-\frac{1}{2}} - \frac{6}{x}$
  - 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.  $f(x) = 7 - 6\sqrt{x} + 5x^{\frac{3}{2}}, a = 64$
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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