

# Calculus Several Variables Canadian 9th Edition Adams **Solutions Manual**

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## CHAPTER 2 DIFFERENTIATION

### Section 2.1 Tangent Lines and Their Slopes (page 100)

1. Slope of  $y = 3x - 1$  at  $(-1; 2)$  is

$$m = \lim_{h \rightarrow 0} \frac{3(-1 + h) - 1 - (-1 - 1)}{h} = \lim_{h \rightarrow 0} \frac{3h}{h} = 3.$$

The tangent line is  $y - 2 = 3(x + 1)$ , or  $y = 3x + 5$ . (The tangent to a straight line at any point on it is the same straight line.)

2. Since  $y = x + 2$  is a straight line, its tangent at any point  $(a; a + 2)$  on it is the same line  $y = x + 2$ .

3. Slope of  $y = 2x^2 - 5$  at  $(2; 3)$  is

$$\begin{aligned} m &= \lim_{h \rightarrow 0} \frac{2(2 + h)^2 - 5 - (2(2)^2 - 5)}{h} \\ &= \lim_{h \rightarrow 0} \frac{8 + 8h + 2h^2 - 9}{h} \\ &= \lim_{h \rightarrow 0} \frac{8h + 2h^2}{h} = 8. \end{aligned}$$

Tangent line is  $y - 3 = 8(x - 2)$  or  $y = 8x - 13$ .

4. The slope of  $y = 6 - x - x^2$  at  $x = 2$  is

$$\begin{aligned} m &= \lim_{h \rightarrow 0} \frac{6 - (2 + h) - (2 + h)^2 - (6 - 2 - 2^2)}{h} \\ &= \lim_{h \rightarrow 0} \frac{-3 - h^2}{h} = \lim_{h \rightarrow 0} -3 - h^2 = -3. \end{aligned}$$

7. Slope of  $y = \sqrt{x + 1}$  at  $x = 3$  is

$$\begin{aligned} m &= \lim_{h \rightarrow 0} \frac{\sqrt{4 + h} - \sqrt{4}}{h} = \lim_{h \rightarrow 0} \frac{\sqrt{4 + h} - \sqrt{4}}{h} \cdot \frac{\sqrt{4 + h} + \sqrt{4}}{\sqrt{4 + h} + \sqrt{4}} \\ &= \lim_{h \rightarrow 0} \frac{4 - 4}{h(\sqrt{4 + h} + \sqrt{4})} = \lim_{h \rightarrow 0} \frac{0}{h(\sqrt{4 + h} + \sqrt{4})} = 0. \end{aligned}$$

Tangent line is  $y - 2 = 0(x - 3)$ , or  $y = 2$ .

8. The slope of  $y = \frac{1}{x}$  at  $x = 9$  is

$$\begin{aligned} m &= \lim_{h \rightarrow 0} \frac{\frac{1}{9 + h} - \frac{1}{9}}{h} = \lim_{h \rightarrow 0} \frac{\frac{9 - (9 + h)}{9(9 + h)}}{h} \\ &= \lim_{h \rightarrow 0} \frac{-h}{9h(9 + h)} = \lim_{h \rightarrow 0} \frac{-1}{9(9 + h)} = -\frac{1}{81}. \end{aligned}$$

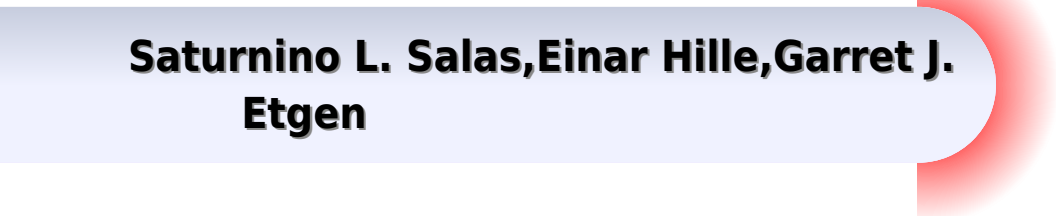
The tangent line at  $(9; \frac{1}{9})$  is  $y - \frac{1}{9} = -\frac{1}{81}(x - 9)$ , or  $y = -\frac{1}{81}x + \frac{2}{9}$ .

9. Slope of  $y = \frac{2x}{x^2 + 2}$  at  $x = 2$  is

$$\begin{aligned} m &= \lim_{h \rightarrow 0} \frac{\frac{2(2 + h)}{(2 + h)^2 + 2} - \frac{4}{4 + 2}}{h} \\ &= \lim_{h \rightarrow 0} \frac{\frac{2(2 + h)}{4 + 4h + h^2 + 2} - \frac{2}{3}}{h} \\ &= \lim_{h \rightarrow 0} \frac{\frac{2(2 + h)}{6 + 4h + h^2} - \frac{2}{3}}{h} = \lim_{h \rightarrow 0} \frac{\frac{2(2 + h) - 2(6 + 4h + h^2)}{3(6 + 4h + h^2)}}{h} \\ &= \lim_{h \rightarrow 0} \frac{-4h - 2h^2}{3h(6 + 4h + h^2)} = \lim_{h \rightarrow 0} \frac{-4 - 2h}{3(6 + 4h + h^2)} = -\frac{2}{9}. \end{aligned}$$

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