

## Solutions Manual for Calculus 8th Edition by Stewart ISBN 9781285740621

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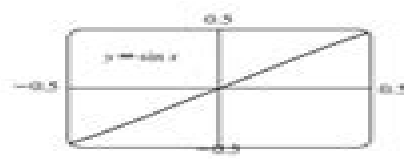
## 2 □ DERIVATIVES

### 2.1 Derivatives and Rates of Change

1. (a) This is just the slope of the line through two points:  $\frac{\Delta y}{\Delta x} = \frac{y(3) - y(3)}{3 - 3}$ .

(b) This is the limit of the slope of the secant line  $y = y(x)$  as  $x$  approaches  $3 = \lim_{x \rightarrow 3} \frac{y(x) - y(3)}{x - 3}$ .

2. The curve looks more like a line as the viewing rectangle gets smaller.



3. (a) (i) Using Definition 1 with  $y(x) = 4x^2 - 3$  and  $y(1) = 1$ ,

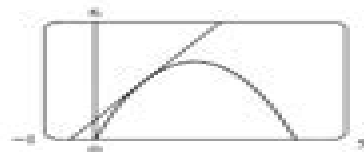
$$\begin{aligned} y' &= \lim_{x \rightarrow 1} \frac{y(x) - y(1)}{x - 1} = \lim_{x \rightarrow 1} \frac{(4x^2 - 3) - 1}{x - 1} = \lim_{x \rightarrow 1} \frac{4x^2 - 4x + 3}{x - 1} = \lim_{x \rightarrow 1} \frac{4x(x - 1) + 3}{x - 1} \\ &= \lim_{x \rightarrow 1} (4x + 3) = 4 + 3 = 7. \end{aligned}$$

(ii) Using Equation 2 with  $y(x) = 4x^2 - 3$  and  $y(1) = 1$ ,

$$\begin{aligned} y' &= \lim_{h \rightarrow 0} \frac{y(1+h) - y(1)}{h} = \lim_{h \rightarrow 0} \frac{4(1+h)^2 - 3 - 1}{h} = \lim_{h \rightarrow 0} \frac{4(1 + 2h + h^2) - 4}{h} \\ &= \lim_{h \rightarrow 0} \frac{4 + 8h + 4h^2 - 4}{h} = \lim_{h \rightarrow 0} \frac{8h + 4h^2}{h} = \lim_{h \rightarrow 0} (8 + 4h) = 8. \end{aligned}$$

(b) An equation of the tangent line is  $y - y(1) = y'(1)(x - 1) \Rightarrow y - 1 = 8(x - 1) \Rightarrow y = 8x - 7$ , or  $y = 8x - 7$ .

(c)



The graph of  $y = 8x - 7$  is tangent to the graph of  $y = 4x^2 - 3$  at the point  $(1, 1)$ . Now zoom in toward the point  $(1, 1)$  until the parabola and the tangent line are indistinguishable.

# Calculus Study And Solutions Guide Vol 1 8th Edition

**Clemens Wendtner**



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