



51. Let  $\epsilon = \epsilon' / (x_0 + 2)$ . Then there exists  $\delta > 0$  such that if  $0 < |x - x_0| < \delta$ , then  $\frac{f(x) - f(x_0)}{x - x_0} - f'(x_0) < \epsilon'$ . Since  $f'(x_0) > 0$  and  $\epsilon = \epsilon' / (x_0 + 2)$  it follows that  $\frac{f(x) - f(x_0)}{x - x_0} - f'(x_0) > -\epsilon' > 0$ . If  $x = x_1 < x_0$  then  $f(x_1) < f(x_0)$  and if  $x = x_2 > x_0$  then  $f(x_2) > f(x_0)$ .

52. 
$$g'(x_1) = \lim_{h \rightarrow 0} \frac{g(x_1 + h) - g(x_1)}{h} = \lim_{h \rightarrow 0} \frac{f(mx_1 + h) - f(mx_1)}{h} = m \lim_{h \rightarrow 0} \frac{f(x_0 + mh) - f(x_0)}{mh} = mf'(x_0).$$

53. (a) Let  $\epsilon = \epsilon' / |m|$ . Since  $m = 0$ ,  $\epsilon' > 0$ . Since  $f(0) = f'(0) = 0$  we know there exists  $\delta > 0$  such that  $\frac{f(h) - f(0)}{h} < \epsilon'$  whenever  $0 < |h| < \delta$ . It follows that  $|f(h)| < \frac{1}{2}|hm|$  for  $0 < |h| < \delta$ . Replace  $h$  with  $x$  to get the result.

(b) For  $0 < |x| < \delta$ ,  $|f(x)| < \frac{1}{2}|mx|$ . Moreover  $|mx| = |mx - f(x) + f(x)| \leq |f(x) - mx| + |f(x)|$ , which yields  $|f(x) - mx| \geq |mx| - |f(x)| > \frac{1}{2}|mx| > |f(x)|$ , i.e.  $|f(x) - mx| > |f(x)|$ .

(c) If any straight line  $y = mx + b$  is to approximate the curve  $y = f(x)$  for small values of  $x$ , then  $b = 0$  since  $f(0) = 0$ . The inequality  $|f(x) - mx| > |f(x)|$  can also be interpreted as  $|f(x) - mx| > |f(x) - 0|$ , i.e. the line  $y = 0$  is a better approximation than is  $y = mx$ .

54. Let  $g(x) = f(x) - [f(x_0) + f'(x_0)(x - x_0)]$  and  $h(x) = f(x) - [f(x_0) + m(x - x_0)]$ ; note that  $h(x) - g(x) = (f'(x_0) - m)(x - x_0)$ . If  $m = f'(x_0)$  then there exists  $\delta > 0$  such that if  $0 < |x - x_0| < \delta$  then  $\frac{f(x) - f(x_0)}{x - x_0} - f'(x_0) < \frac{1}{2}[f'(x_0) - m]$ . Multiplying by  $|x - x_0|$  gives  $|g(x)| < \frac{1}{2}|h(x) - g(x)|$ . Hence  $2|g(x)| < |h(x) + (-g(x))| \leq |h(x)| + |g(x)|$ , so  $|g(x)| < |h(x)|$ . In words,  $f(x)$  is closer to  $f(x_0) + f'(x_0)(x - x_0)$  than it is to  $f(x_0) + m(x - x_0)$ . So the tangent line gives a better approximation to  $f(x)$  than any other line through  $(x_0, f(x_0))$ . Clearly any line not passing through that point gives an even worse approximation for  $x$  near  $x_0$ , so the tangent line gives the best linear approximation.

55. See discussion around Definition 2.2.2.

56. See Theorem 2.2.3.

### Exercise Set 2.3

1.  $28x^6$ , by Theorems 2.3.2 and 2.3.4.
2.  $-36x^{11}$ , by Theorems 2.3.2 and 2.3.4.
3.  $24x^7 + 2$ , by Theorems 2.3.1, 2.3.2, 2.3.4, and 2.3.5.
4.  $2x^3$ , by Theorems 2.3.1, 2.3.2, 2.3.4, and 2.3.5.

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