



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 $\epsilon = f'(x_0)/2$ it follows that $\frac{f(x) - f(x_0)}{x - x_0} > \frac{f'(x_0)}{2} > 0$. 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 $\epsilon = |\epsilon|/2$. Since $m = 0$, $\epsilon > 0$. Since $f(0) = f'(0) = 0$ we know there exists $\delta > 0$ such that $\frac{f(0 + h) - f(0)}{h} < \epsilon$ whenever $0 < |h| < \delta$. It follows that $|f(h)| < \frac{1}{2}|h\epsilon|$ 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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