

52. if $M < 0$ then $\frac{-1}{(x-3)^2} < M$, $0 < (x-3)^2 < -\frac{1}{M}$, $0 < |x-3| < \frac{1}{\sqrt{-M}}$, $\delta = \frac{1}{\sqrt{-M}}$
53. if $M > 0$ then $\frac{1}{|x|} > M$, $0 < |x| < \frac{1}{M}$, $\delta = \frac{1}{M}$
54. if $M > 0$ then $\frac{1}{|x-1|} > M$, $0 < |x-1| < \frac{1}{M}$, $\delta = \frac{1}{M}$
55. if $M < 0$ then $-\frac{1}{x^4} < M$, $0 < x^4 < -\frac{1}{M}$, $|x| < \frac{1}{(-M)^{1/4}}$, $\delta = \frac{1}{(-M)^{1/4}}$
56. if $M > 0$ then $\frac{1}{x^4} > M$, $0 < x^4 < \frac{1}{M}$, $x < \frac{1}{M^{1/4}}$, $\delta = \frac{1}{M^{1/4}}$
57. if $x > 2$ then $|x+1-3| = |x-2| = x-2 < \epsilon$ if $2 < x < 2+\epsilon$, $\delta = \epsilon$
58. if $x < 1$ then $|3x+2-5| = |3x-3| = 3|x-1| = 3(1-x) < \epsilon$ if $1-x < \frac{1}{3}\epsilon$, $1 - \frac{1}{3}\epsilon < x < 1$, $\delta = \frac{1}{3}\epsilon$
59. if $x > 4$ then $\sqrt{x-4} < \epsilon$ if $x-4 < \epsilon^2$, $4 < x < 4+\epsilon^2$, $\delta = \epsilon^2$
60. if $x < 0$ then $\sqrt{-x} < \epsilon$ if $-x < \epsilon^2$, $-\epsilon^2 < x < 0$, $\delta = \epsilon^2$
61. if $x > 2$ then $|f(x)-2| = |x-2| = x-2 < \epsilon$ if $2 < x < 2+\epsilon$, $\delta = \epsilon$
62. if $x < 2$ then $|f(x)-6| = |3x-6| = 3|x-2| = 3(2-x) < \epsilon$ if $2-x < \frac{1}{3}\epsilon$, $2 - \frac{1}{3}\epsilon < x < 2$, $\delta = \frac{1}{3}\epsilon$
63. (a) if $M < 0$ and $x > 1$ then $\frac{1}{1-x} < M$, $x-1 < -\frac{1}{M}$, $1 < x < 1 - \frac{1}{M}$, $\delta = -\frac{1}{M}$
 (b) if $M > 0$ and $x < 1$ then $\frac{1}{1-x} > M$, $1-x < \frac{1}{M}$, $1 - \frac{1}{M} < x < 1$, $\delta = \frac{1}{M}$
64. (a) if $M > 0$ and $x > 0$ then $\frac{1}{x} > M$, $x < \frac{1}{M}$, $0 < x < \frac{1}{M}$, $\delta = \frac{1}{M}$
 (b) if $M < 0$ and $x < 0$ then $\frac{1}{x} < M$, $-x < -\frac{1}{M}$, $\frac{1}{M} < x < 0$, $\delta = -\frac{1}{M}$
65. (a) Given any $M > 0$ there corresponds $N > 0$ such that if $x > N$ then $f(x) > M$, $x+1 > M$, $x > M-1$, $N = M-1$.
 (b) Given any $M < 0$ there corresponds $N < 0$ such that if $x < N$ then $f(x) < M$, $x+1 < M$, $x < M-1$, $N = M-1$.
66. (a) Given any $M > 0$ there corresponds $N > 0$ such that if $x > N$ then $f(x) > M$, $x^2-3 > M$, $x > \sqrt{M+3}$, $N = \sqrt{M+3}$.
 (b) Given any $M < 0$ there corresponds $N < 0$ such that if $x < N$ then $f(x) < M$, $x^3+5 < M$, $x < (M-5)^{1/3}$, $N = (M-5)^{1/3}$.
67. if $\delta \leq 2$ then $|x-3| < 2$, $-2 < x-3 < 2$, $1 < x < 5$, and $|x^2-9| = |x+3||x-3| < 8|x-3| < \epsilon$ if $|x-3| < \frac{1}{8}\epsilon$, $\delta = \min(2, \frac{1}{8}\epsilon)$
68. (a) We don't care about the value of f at $x = a$, because the limit is only concerned with values of x near a . The condition that f be defined for all x (except possibly $x = a$) is necessary, because if some points were excluded then the limit may not exist; for example, let $f(x) = x$ if $1/x$ is not an integer and $f(1/n) = 6$. Then $\lim_{x \rightarrow 0} f(x)$ does not exist but it would if the points $1/n$ were excluded.
 (b) when $x < 0$ then \sqrt{x} is not defined (c) yes; if $\delta \leq 0.01$ then $x > 0$, so \sqrt{x} is defined

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