

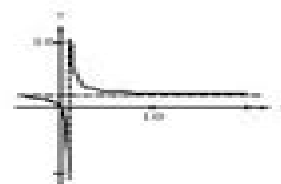
- (c) For part (a) consider the fact that given any $\delta > 0$ there are infinitely many rational numbers x satisfying $|x| < \delta$ and there are infinitely many irrational numbers satisfying the same condition. Thus if the limit were to exist, it could not be zero because of the rational numbers, and it could not be 1 because of the irrational numbers, and it could not be anything else because of all the numbers. Hence the limit cannot exist. For part (b) use the Squeezing Theorem with $+x$ and $-x$ as the 'squeezers'.

CHAPTER 2 SUPPLEMENTARY EXERCISES

1. (a) 1 (b) no limit (c) no limit (d) 1 (e) 3
(f) 0 (g) 0 (h) 2 (i) $1/2$

2. (a) $f(x) = 2x/(x-1)$

(b)



4. $f(x) = -1$ for $a \leq x < \frac{a+b}{2}$ and $f(x) = 1$ for $\frac{a+b}{2} \leq x \leq b$.

5. (a) 0.222..., 0.24390, 0.24938, 0.24994, 0.24999, 0.25000; for $x \neq 2$, $f(x) = \frac{1}{x+2}$, so the limit is $1/4$; the limit is 4.

(b) 1.15782, 4.22793, 4.00213, 4.00002, 4.00000, 4.00000; to prove, use $\frac{\tan 4x}{x} = \frac{\sin 4x}{x \cos 4x} = \frac{4}{\cos 4x} \cdot \frac{\sin 4x}{4x}$.

6. (a) $y = 0$ (b) none (c) $y = 2$

7. (a)

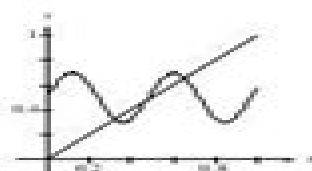
x	1	0.1	0.01	0.001	0.0001	0.00001	0.000001
$f(x)$	1.000	0.443	0.409	0.406	0.406	0.405	0.405

(b)



8. (a) 0.4 amperes (b) $[0.3947, 0.4054]$ (c) $\left[\frac{3}{7.5 + \delta}, \frac{3}{7.5 - \delta} \right]$
(d) 0.0187 (e) It becomes infinite.

9. (a)



(b) Let $g(x) = x - f(x)$. Then $g(1) \geq 0$ and $g(0) \leq 0$; by the Intermediate Value Theorem there is a solution c in $[0, 1]$ of $g(c) = 0$.

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