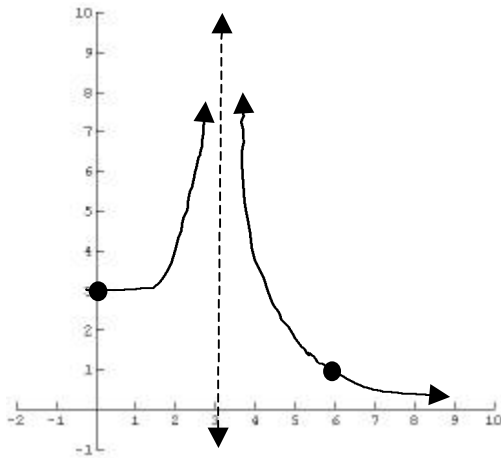


Answers to Additional Problems

Unit 1

1. $y = 2x + b$ The equation for the member through $(-4,6)$ is $y = 2x + 14$.
2. 1. I 2. E 3. G 4. B 5. D 6. H 7. F 8. A 9. C
3. 1. B 2. C 3. D 4. E 5. F 6. A
4. Line segment from $(-3,-6)$ to $(1,2)$
Equation: $y = 2x$ where $-3 \leq x \leq 1$ and $-6 \leq y \leq 2$
5. a) True b) True c) False d) False e) True f) False

6.



...

7. a) 5 b) 15 c) -1 d) -3 e) $\frac{2}{5}$ f) $-\infty$ g) 2
h) 0 i) 5 j) $\frac{5}{2}$
8. $(1.998, 2.002)$
9. Choose $d = \frac{e}{4}$
10. Choose $N = \frac{1}{e} - 3$
11. 1) $\lim_{x \rightarrow a} f(x)$ must exist 2) $f(a)$ must exist 3) $\lim_{x \rightarrow a} f(x) = f(a)$
12. a) $x = \frac{1}{2}$, $x = -3$ b) kp where $k = 0, \pm 1, \pm 2, \pm 3, \dots$