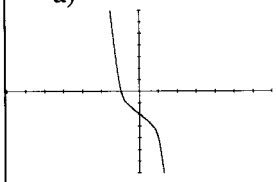
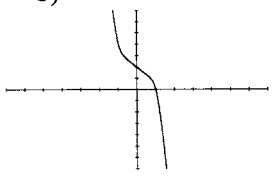
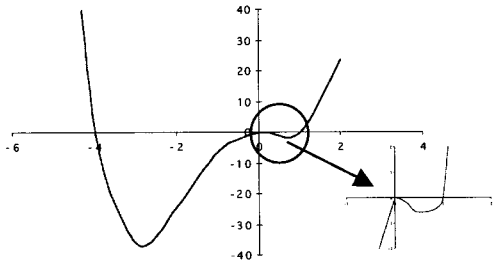
Section 4.1

2. a) b)





18. f(x) > 0 if x < -4 or x > 1
    f(x) < 0 if -4 < x < 0 or 0 < x < 1



Section 9.1

2. (-2, 5), (1,2)
4. No real solutions, $y = -1 \pm i\sqrt{2}$
18. No real solutions, $x = -\frac{6}{5} \pm \frac{2}{5}i$
20. $\left(\frac{1}{3}, 6\right), (-2, -1)$

Section 9.2

2. (-3, 5)
10. $\left(\frac{55}{31}, -\frac{95}{31}\right)$
14. No solution
16. All (x,y) such that x-5y=2
24. He can row 55 ft./min.
    The current is 5 ft./min.
32. 320 $0.50 notebooks and 180 $0.70 ones
34. $V_0 = 80$ ft/sec, $S_0 = 20$ ft.