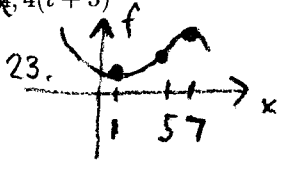
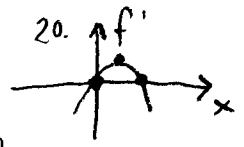


Sheet #265 - Ch. 1 & 2 Review

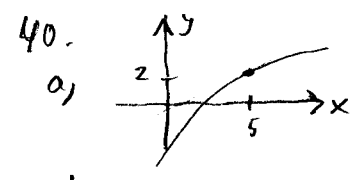
Answer List

1. 7
2. -9
3. B
4. C
5. E
6. C
7.  $\sqrt{5}$
8.  $-\sqrt{13}$
9. E
10. A
11. D
- 12. ~~X~~ D
- 13. ~~5, -5, 4, at 0, yes~~  $5, -5, \boxed{14}, x=0, \text{yes.}$
- 14. ~~X~~ C = -3
15. B
16. B
17. B
18. A
19. A
- 20
21. C
- 22.  $32, 28 + 2\Delta t, \boxed{28}, 4(t+3)$  → ALL IN  $ft^3/sec.$
- 23
24. E
25. D
26.  $(-2, -12)$
27. C
28. E
29. E
30. B
31. E
32. C
33. C
34. A
35. C
36.  $3 \text{ sec}; 3 \text{ m/sec}; -3 \text{ m/sec}^2; 3 \text{ m}; s(0) + 6 \text{ m}; -3 \text{ m}.$
- 37.
- 38.
- 39.
- 40.



38. a, BY 10 AM, 3.1 cm HAT FALLS.  
 b, GET 5cm BY 4 PM (16:00 HOURS).  
 c, GET 0.4 cm MORE RAIN PER HOUR.  
 d, WAIT 2 MORE HOURS TO GET 1 cm MORE.  
 e, 3.9 cm

39. a, mpg/mph (or l/gal)  
 b, g FALLS BY 0.54 mpg per 1 mph of INCREASE IN SPEED.  
 c, 34.6 mpg.



- b, 1.  
 c,  $1 < x < 5$   
 d,  $-\infty$   
 e, yes.  
 f, No.  $f'(1) > 0.5$ , SINCE  $f'$  DECREASES.