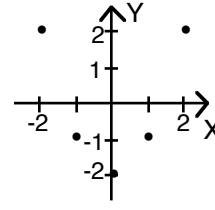
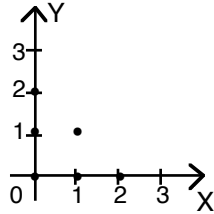
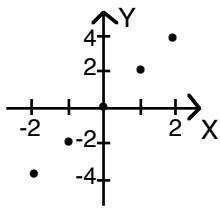


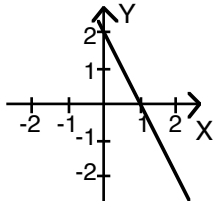
CHAPTER 7, TEST A

1. Domain: $\{1, 2, 4\}$
Range: $\{-2, -1, 1\}$
2. Domain: $\{x \mid x \text{ is a real number}\}$
Range: $\{y \mid y \text{ is a real number}\}$
3. Domain: $\{1, 2, 3, 4, 5\}$ 4. (b) and (c) only
Range: $\{1, 2, 3, 4, 5\}$

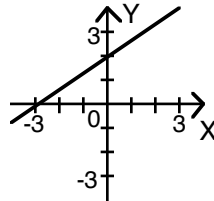
5. (a) 0 (b) 1 (c) -8 6. 225
7. 8.



10.



11.



9.

12. (a) $2\sqrt{5}$ b. 10

13. slope = 3

14. $3x - y = -7$

15. (a) $y = -3x - 2$ (b) $y = -\frac{3}{4}x + 2$; Slope: $-\frac{3}{4}$, y-intercept: 2

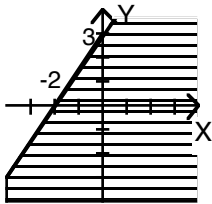
16. (a) Lines are parallel

17. $2x + y = 10$

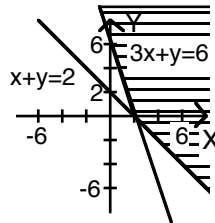
- (b) Intersect at $(\frac{1}{2}, 3)$

18. (2, 4)

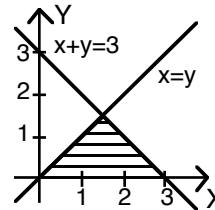
19.



20.



21.



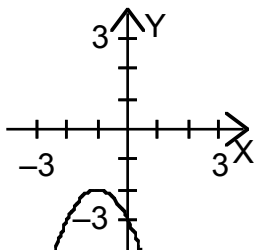
22. No solution. The lines are parallel.

23. 14

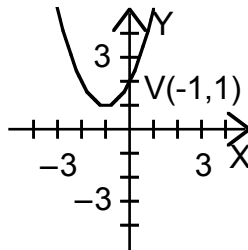
24. -4

25. Operate A 30 hr, B 10 hr

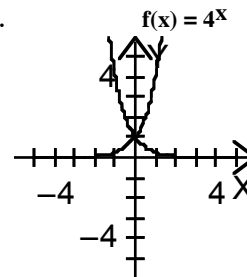
26.



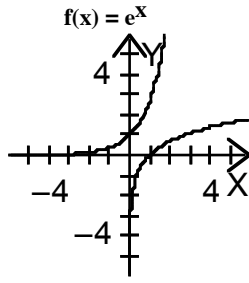
27.



28.



29.



30. $t = \frac{\ln 2}{0.10}$ years

CHAPTER 7, TEST B

1. (b) 2. (d) 3. (a) 4. (c) 5. (e) 6. (d)

7. (a) 8. (c) 9. (d) 10. (d) 11. (c) 12. (d)

13. (c) 14. (b) 15. (c) 16. (b) 17. (c) 18. (e)

19. (b) 20. (c) 21. (a) 22. (a) 23. (b) 24. (d)

25. (b) 26. (d) 27. (a) 28. (b) 29. (a) 30. (a)