

Unit 1 - 5 Review

Answer Key

1. b

2. d

3. a

4. a

5. a

6. d

7. d

8. b

9. c

10. d

11. d

12. 52

13. $2x - 6$

14. four times m squared plus two

15. 22

16. $11y + 3$

17. c

18. a

19. b

20. c

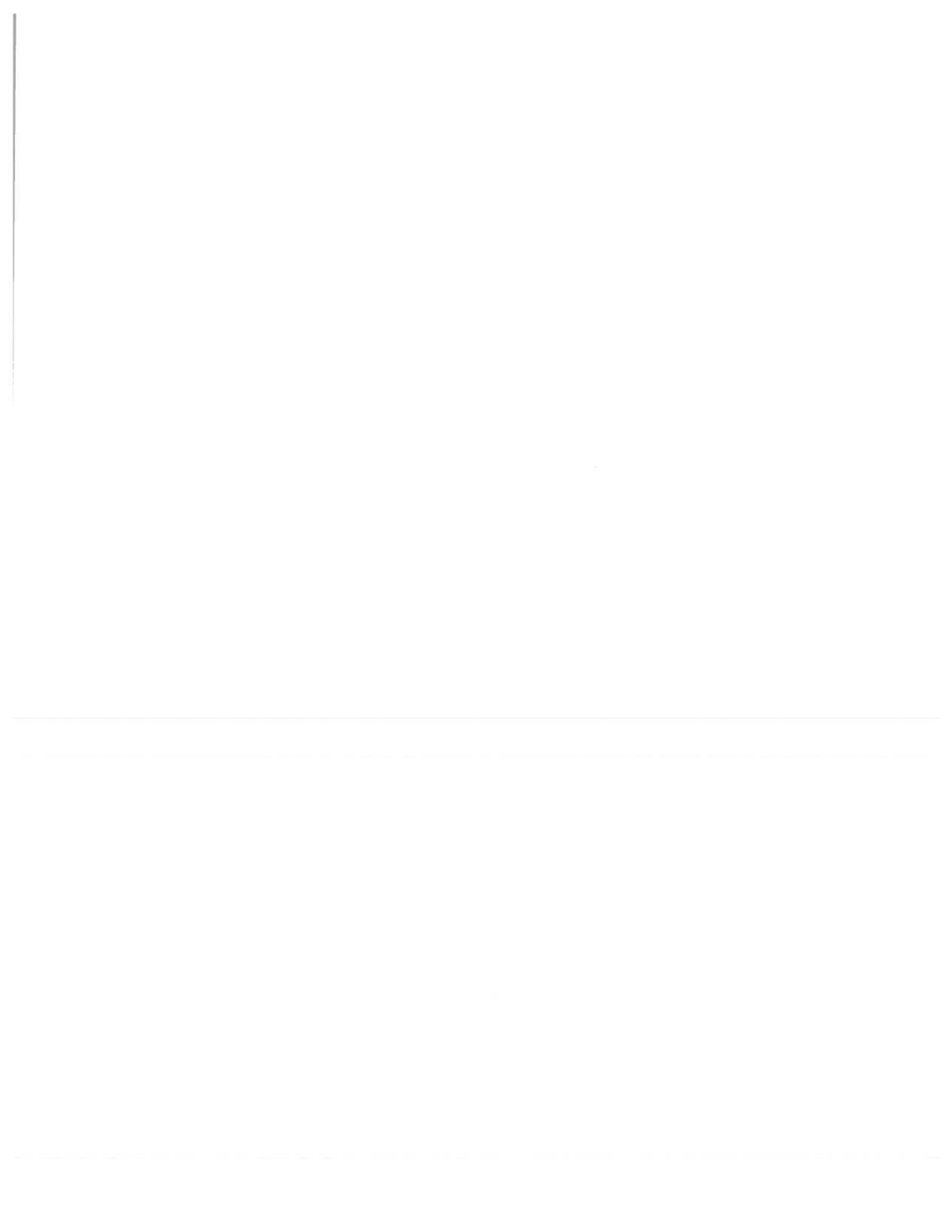
21. $5u + 9x$

22. $85 - 9y = 7(4 + y)$

23. 31

24. 3

25. $m = x(t - p)$



Unit 1 - 5 Review

26. c

27. c

28. c

29. d

30. c

31. d

32. a

33. b

34. b

35. c

36. c

37. d

38. a

39. 77

40. Sample answer: x divided by 4 minus y equals negative 2 times the quotient of x and y .

41. $\{y \mid y \geq 0\}$

42. -2

43. not a function

44. a. $g(x) = 0.99s + 8$

b. \$5.94; \$13.94

45. b

46. a

47. b

48. c

49. d

50. $2r^2t^2$

Unit 1 - 5 Review

51. 0

52. $-30y$

53. $-2a + 3b$

54. 2

55. Yes; exactly one member of the range is paired with each member of the domain.

56. $y = \frac{3}{2}x + 2$

57. c

58. c

59. b

60. d

61. a

62. b

63. d

64. a

65. b

66. c

67. b

68. a

69. d

70. 1

71. 5

72. 102

73. 21

74. $y = 4x - 4$

75. $a \leq -15$

Unit 1 - 5 Review

76. $\left\{f \mid -3 \leq f \leq 1\frac{2}{3}\right\};$



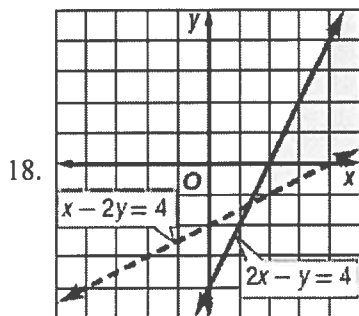
77. $\{a \mid -2 \leq a < 5\};$



Unit 6 - 9 Review

Answer Key

1. a
2. c
3. b
4. a
5. b
6. d
7. d
8. a
9. b
10. b
11. d
12. b
13. a
14. infinitely many
15. d
16. $\left(2\frac{1}{3}, 1\right)$
17. $4a^2b^2(3 - 4b)$



19. $(5x - 1)(x - 1)$
20. $(2x + 7y)(2x - 7y)$

Unit 6 - 9 Review

21. a. Sample answer: $x =$ lesser number, $y =$ greater number, $x + y = 18$, $3x - y = 10$

b. 11

22. a. Sample answer: Let $x =$ first number and $y =$ second number;

$$3x - y = -40$$

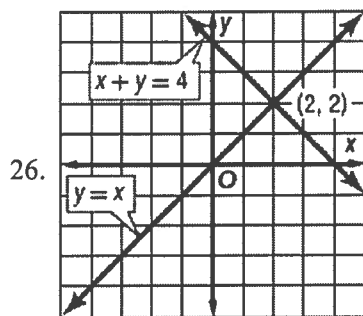
$$x + 2y = -4$$

b. -12 and 4

23. $8x + 12y \leq 62$

24. $16x^8 y^{12}$

25. c



one solution; (2, 2)

27. elimination (\times); (1, -1)

28. c

29. d

30. $\frac{3y^2}{x^3}$

31. 1.5

32. a

33. $-4x^2y + 9xy - 8y^2$

34. $9a^4 - 4$

35. a. Sample answer: $c =$ Dallas Cowboys wins $r =$ Baltimore Ravens wins; $c + r = 7$; $c = 2.5r$

b. Dallas Cowboys won 5 Super Bowls

36. $(x + 7)(x + 5)$

Unit 6 - 9 Review

37. $(2m + 5)(m + 3)$

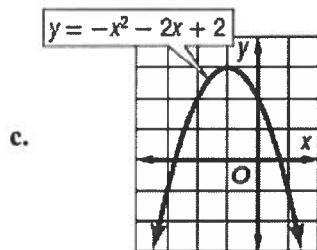
38. $-12, 12$

39. 10 s and about 5.6 s

40. 0.2

41. **a.** $x = -1$

b. $(-1, 3)$; maximum



42. **a**

43. **a.** $w(w + 16) \text{ ft}^2$

b. 10 ft by 26 ft

44. **b**

45. **a**

46. **b**

