

Chapters 1-13

End-of-Course Test

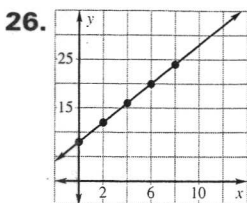
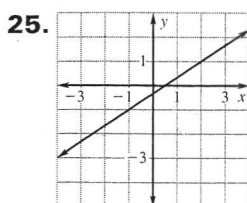
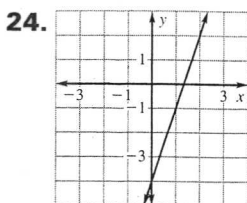
1. 21 2. 2 3. 51 4. -11 5. \$2.50, \$2.75, 18-holes
 6. $y = 2x + 26$; independent variable: x , dependent variable: y , domain: $x \geq 0$, range: $y \geq 26$
 7. -25 8. 42 9. -35 10. 0.16

11. -25 12. $\frac{5}{3}$ 13. 3 14. 294 15. $-\frac{3}{11}$

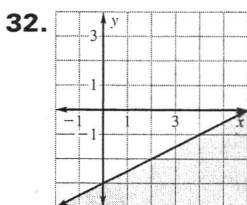
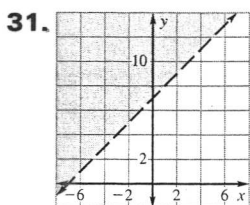
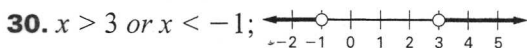
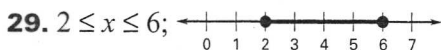
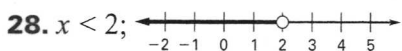
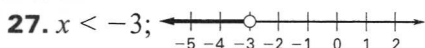
16. $\frac{5}{8}$ 17. $\frac{15}{4}$ 18. 92 ft 19. 198 animals

20. $m = -\frac{9}{7}, b = 2$ 21. $m = -3, b = 2$

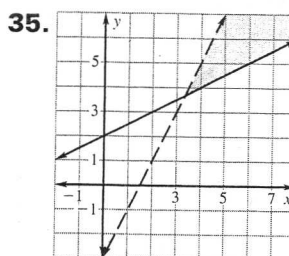
22. $y = 4x - 1$ 23. $y = -3x - 1$



$y = 2x + 8$



33. (5, 2) 34. (6, -2)



36. 6^{11} 37. $\frac{y^{21}}{z^6}$ 38. $\frac{18m^2}{n^2}$ 39. 9.3×10^{-4}

40. $y = a(1 + r)^t$ 41. \$8881.47

42. $16a^2 + 8a + 14$ 43. $-2b^3 - 2b^2 - 5b - 1$

44. $12c^2 + 40c - 7$ 45. $81d^2 - 49$

46. $(x + 6)(2x - 5)$ 47. $(3y + 11)^2$

48. 0.125 sec 49. -1.12, 1.12 50. -3, 5

51. 4.06, -0.06 52. no solution 53. $6y^2\sqrt{y}$

54. $21x\sqrt{2y}$ 55. $\frac{11\sqrt{3}}{3}$ 56. 121 57. 10

58. 3 in.; 12 in. 59. $y = \frac{54}{x}, 3$ 60. $y = \frac{8}{x}, \frac{4}{9}$

61. $3x - 2 + \frac{4}{x + 9}$ 62. $5x + 2 + \frac{3}{3x - 1}$

63. -12, 4 64. -9, -2 65. $\frac{1}{156}$ 66. 42,504

67. 85; 85; 85; 25

68. $7 \mid 25$ Key: $7 \mid 2 = 72$
 $8 \mid 125568$
 $9 \mid 137$

