

Answer Key

Geometry and Honors Geometry Summer Review Packet 2008

Part I

1. $d = 43$

2. $x = \frac{-1}{10}$

3. $r = -11$

4. $v = 225$

5. $x = 160$

6. $z = 18$

7. $p = 3$

8. $x = -6$

9. $x = 30$

10. $k = 4$

11. $s = -3$

12. $x = 4$

13. $c = -1$

14. $x = 10$

15. $x = 7$

16. $x = 6$; $AB = 19$

17. $x = 11$; Area = 51

18. length = 27

19. length = 16

20. 11, 16.5, 27.5

21. $x = 5$, length 20, width 15

22. height = 6, base = 9

23. $b = 4$

24. $a = 6$

25. $b = 24$

26. $c = 17$

27. $b = 12$

28. $4x^3 - 8x^2 + 20x$

29. $-10x + 15y - 40z + 30$

30. $2x + 5y^2 - 4$

31. $x^2 - 2x - 15$

32. $4x^2 - 25$

33. $6x^2 + 11x + 4$

34. $x^2 - 14x + 49$

35. $9x^2 - 6x + 1$

36. $h = 3$

37. $r = 5$

38. $V = 113.04$

39. $h = 7$

40. $h \approx 1.06$

41. $s = 6$

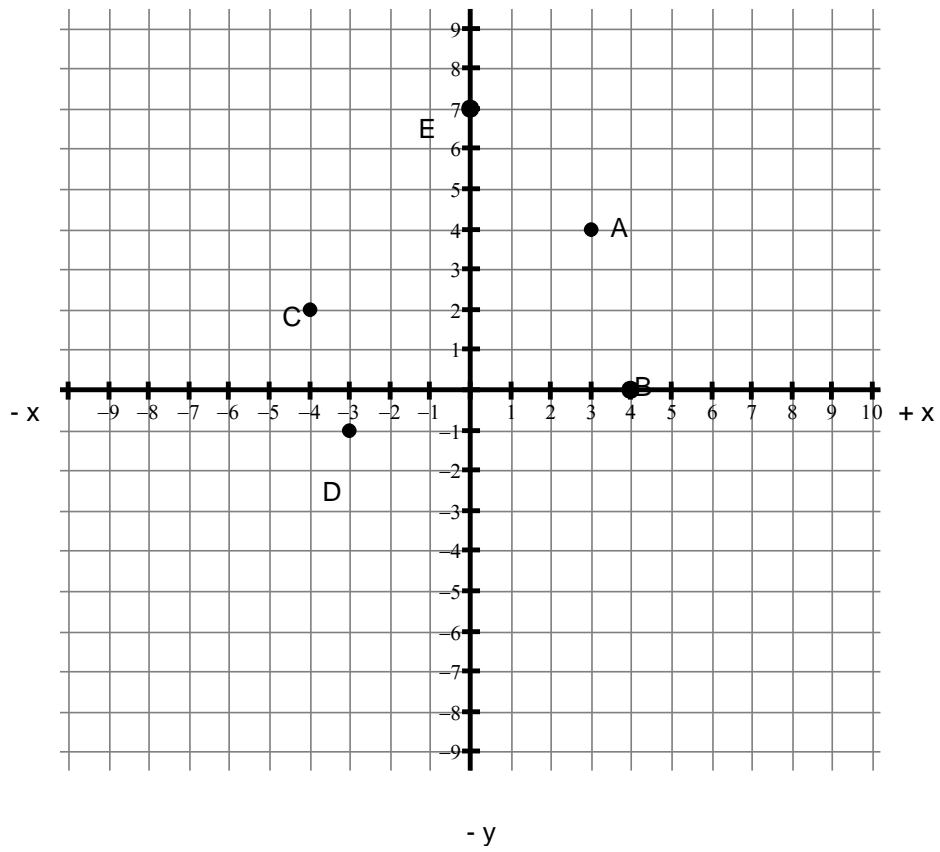
42. $s = 7$

43. $V = 64$

44. $h \approx 5.99$

Answer Key

45 – 49.



51. (3,2)

52. (-1,4)

53. (0,1)

54. (4,-3)

55. (-1,-1)

56. (-4,0)

57. (-3,1)

58. (-4,-3)

59. $m = \frac{1}{2}$

60. $m = \frac{4}{7}$

61. $m = 1$

62. $m = \frac{3}{4}$

63. $m = \frac{15}{4}$

Answer Key

HONORS SECTION

64. $x(3x + 1)$

65. $(x - 3)(x + 3)$

66. $(4x - 5)(4x + 5)$

67. $(x + 2)(x + 5)$

68. $(x - 3)(x - 6)$

69. $(x - 8)(x + 5)$

70. $2(x + 2)(x + 3)$

71. $(2x + 1)(x - 6)$

72. $(3x - 5)(x + 5)$

73. $(2x - 7)(2x - 7)$

74. $x = 3/2$ or $-4/3$

75. $m = 7$ or 3

76. $x = 4$ or -4

77. $x = 3$ or -3

SYSTEM OF EQUATIONS - SUBSTITUTION

1. $x = 7, y = 5$

2. $x = 16, y = -9$

3. $a = -3, b = -2$

SYSTEM OF EQUATIONS – LINEAR COMBINATION

1. $x = 4, y = -3$

2. $x = 10, y = -2$

3. $x = 3, y = 7$