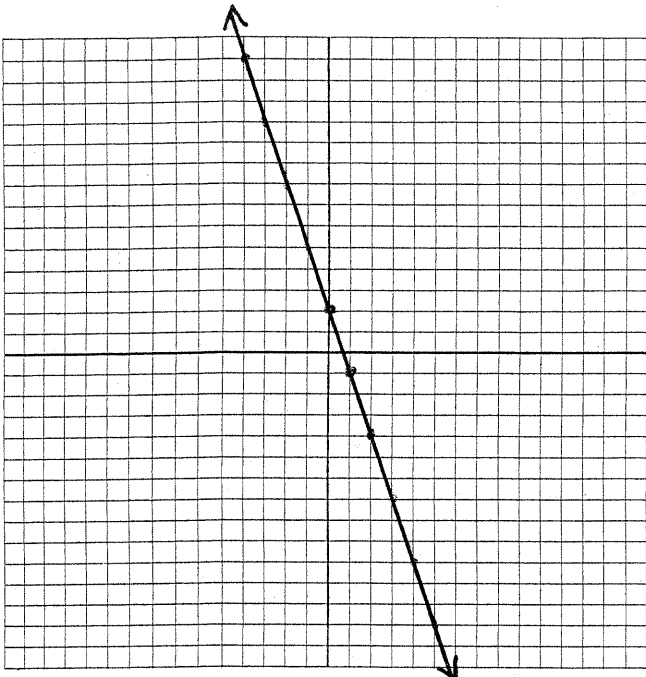
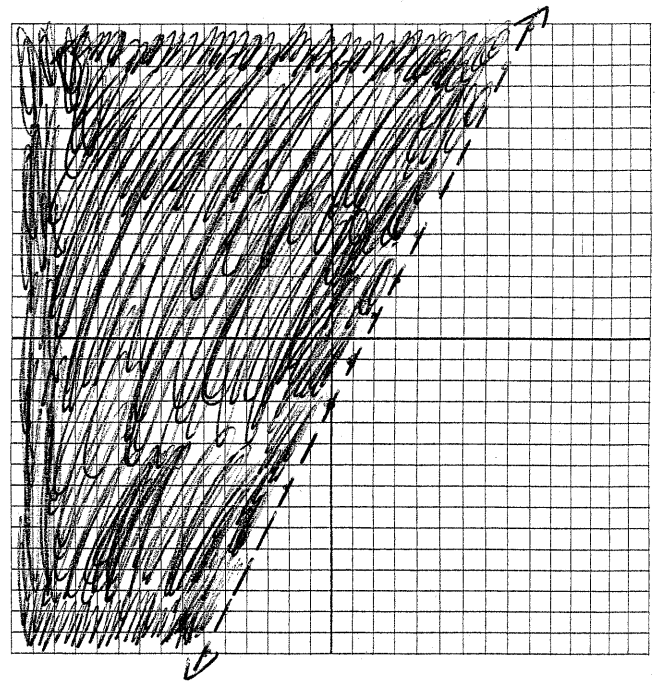


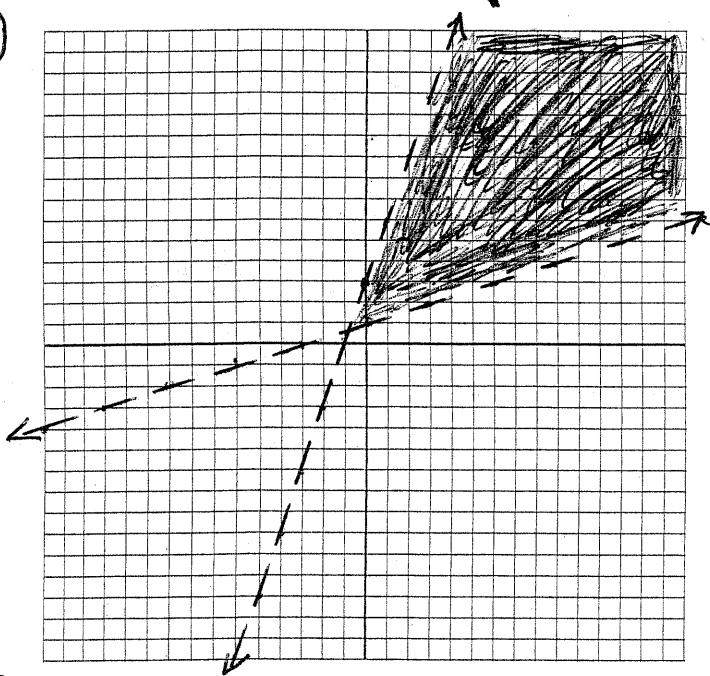
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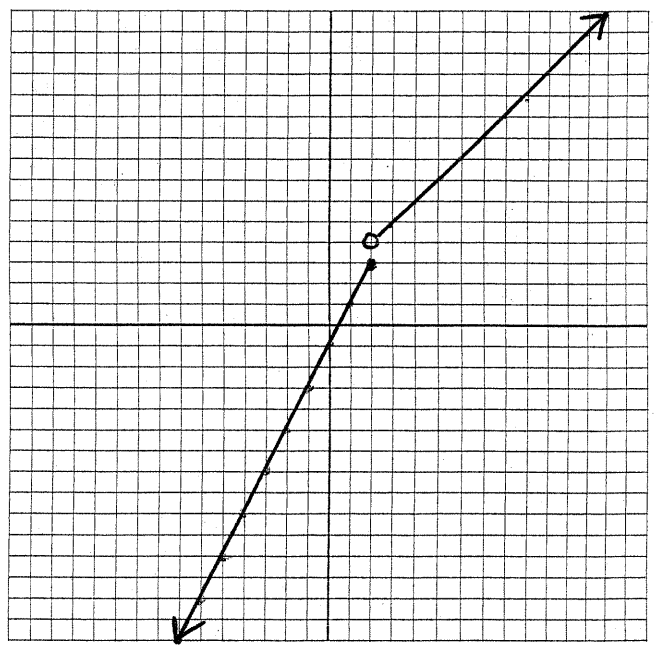
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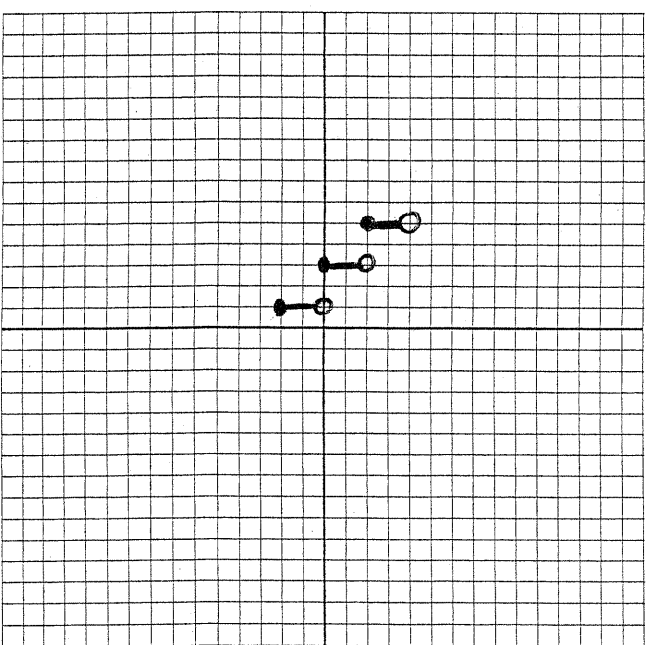
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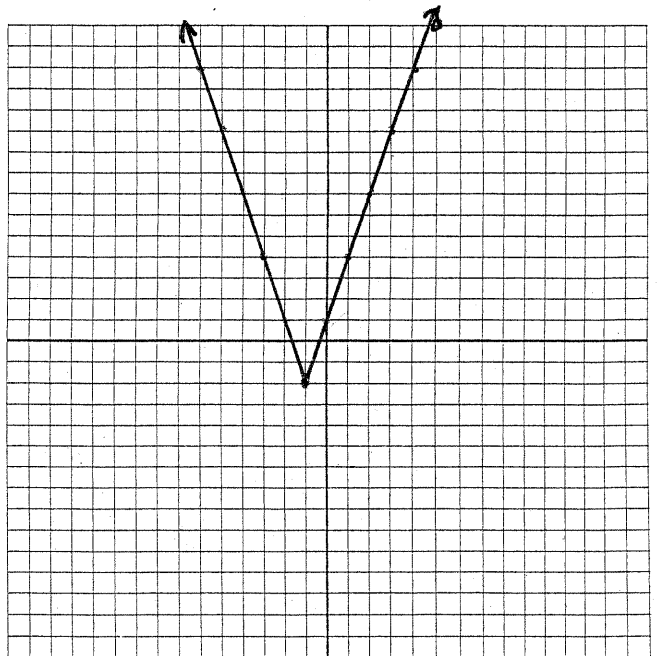
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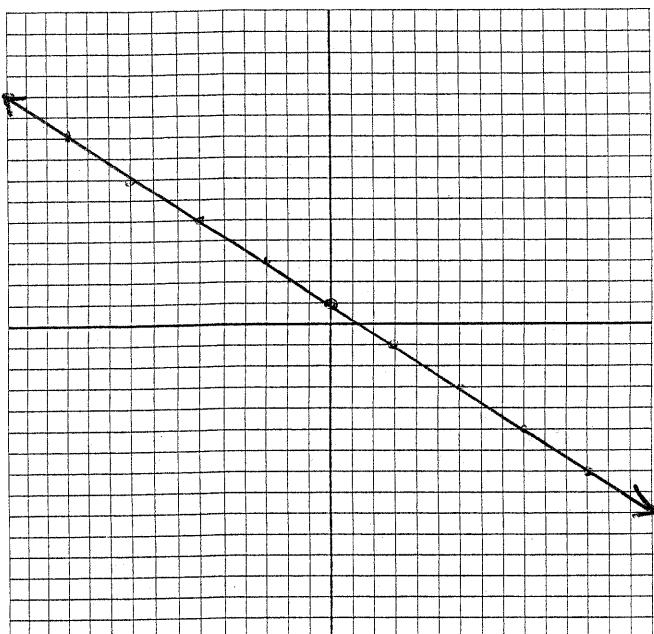
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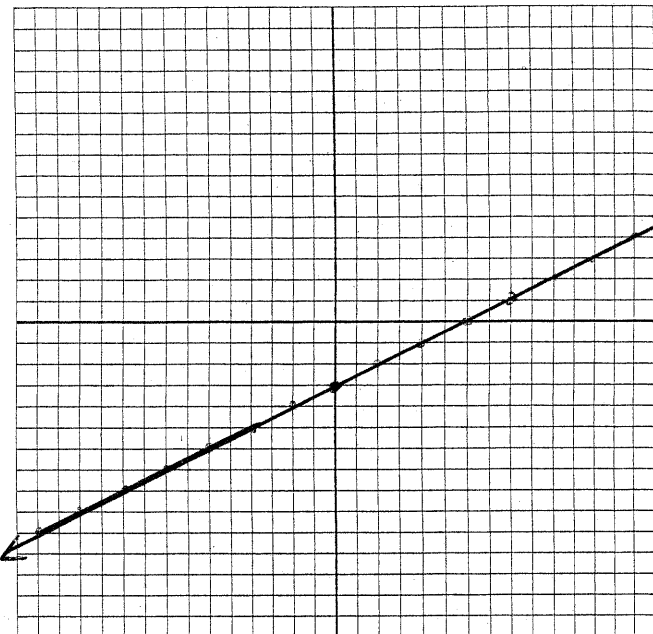
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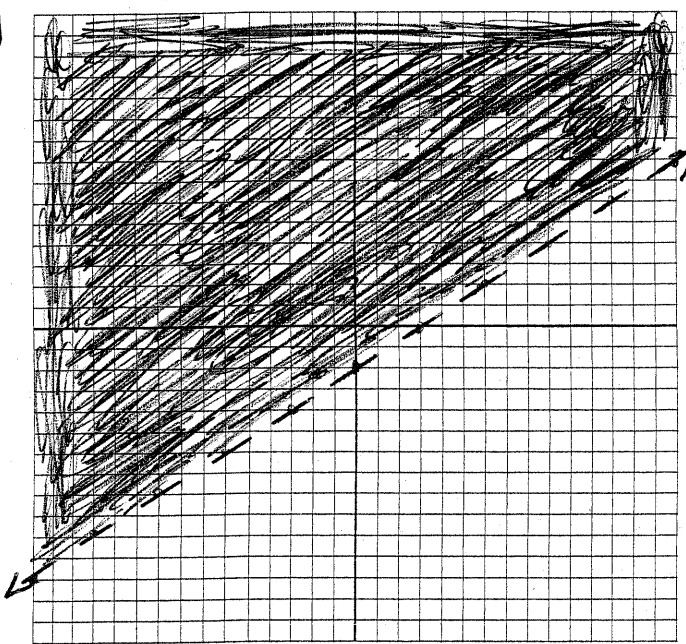
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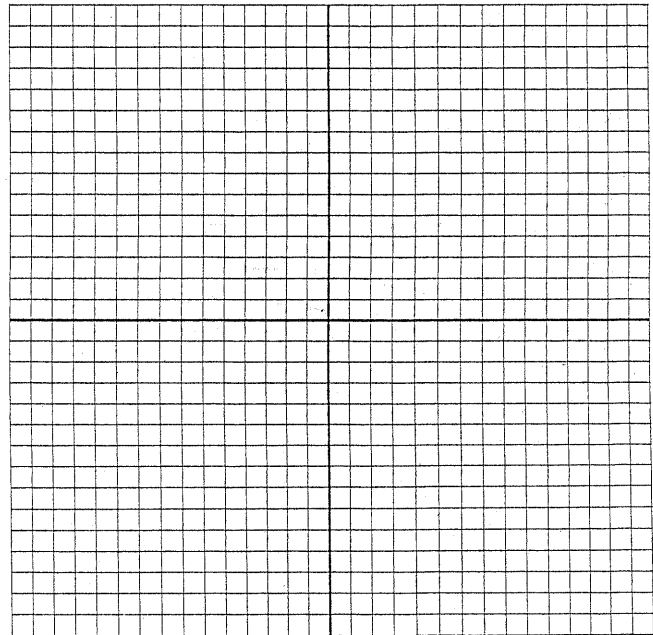
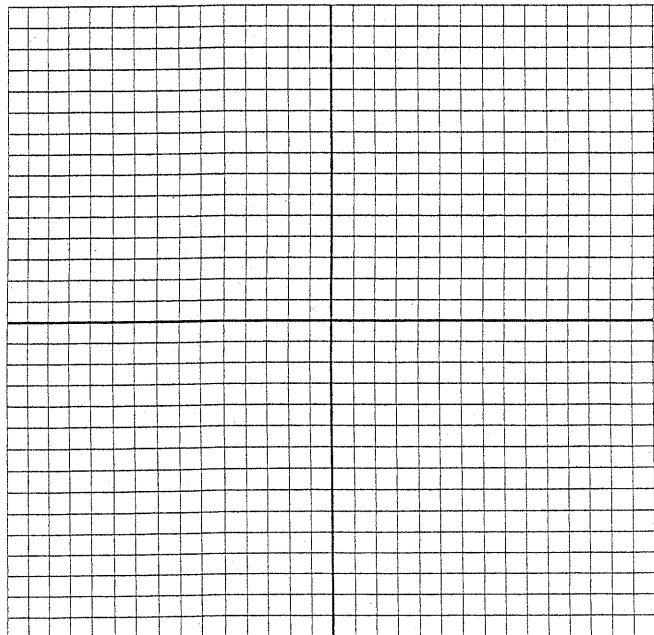
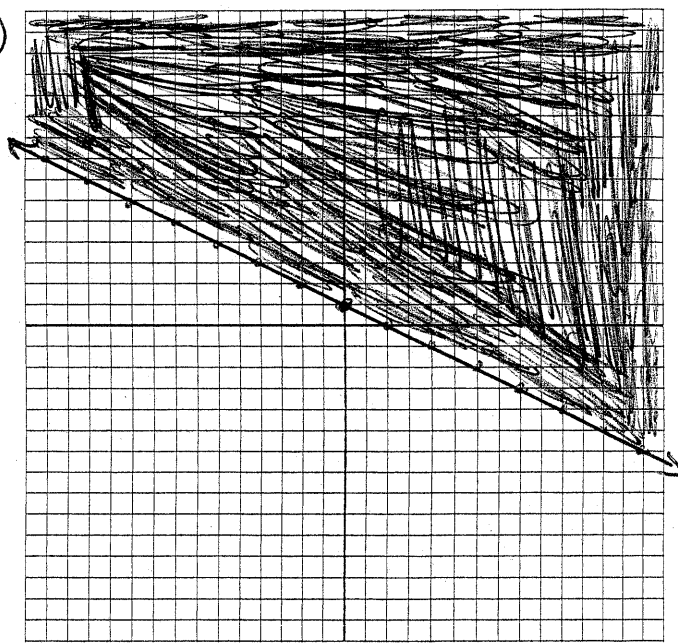
28



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Final exam review solutions.

7. $6\frac{2}{3}$ hours

8. \$800 @ 6%, \$200 @ 9%

9. $\frac{x-2}{x+3}$

10. $\frac{3x}{(x-3)(x+2)}$

11. $\frac{1}{6}$

12. $\frac{4x^2+25}{20x^2}$

13. $\frac{8}{(z-4)(z+4)}$

14. $\frac{3}{y-2}$

15. $m + 1$

16. $\frac{y+1}{y-1}$

17. $18x^8$

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

19. $x < -4$

20. *all real #'s*

21. $x < 2$ or $x \geq 4$

22. $3 < x < 6$

23. $x = 1$ or $x = -2$

24. $x = 5$ or $x = -1$

25. $-2 < x < \frac{2}{3}$

26. $x > \frac{4}{5}$ or $x < -\frac{3}{5}$

31. $(-4, -2)$

32. $(3, 1)$

33. $(-2, 1, -1)$

34. 9

35. 14

36. -1

37. 17

38. -1

39. -4

40. $2x^3 - 8x^2y + 8xy^2$

41. $16a^4 + 8a^3b + a^2b^2$

42. $k = -2$

43. $k = 2$

44. $m = -\frac{2}{5}$

45. $m = 8$

46. $x - y = 3$

47. $2x - 3y = 1$

48. $x + 3y = -11$

49a. $x - 3y = -7$

49b. $3x + y = -1$

50. $3xy^2z$

51. $4a^2b^2c^2$

52. $(2x + 3y)^2$

53. $(4x^2 - 5y^3)^2$

54. $(x^2 - y)(x^4 + x^2y + y^2)$

55. $(3m + 2)(9m^2 - 6m + 4)$

56. *no solution*

57. $t = 2$

58. $\{-4, 4\}$

59. *no real roots*

60. 3

61. $15\sqrt{3}$

62. $5\sqrt[3]{2}$

63. $5\sqrt[3]{2} + 2\sqrt[3]{5}$

64. $\sqrt{10xy}(2x^3y^2 + 3x)$

65. $\sqrt{xy}(12x^2 - 5y)$

66. b

67. c

68. $(m + 2)(3m - 8)$

69. $(2x + 5)(4x - y)$

70. $c^2(c + 4)(c + 10)$ 71. $w^2(w - 5)(w - 6)$ 72. $\{1, 5\}$ 73. $\{-3, 7\}$

74. $t \leq 0$ or $t \geq 9$ 75. $0 < z < 5$ 76. 9 cm 77. 5 inches

78. $25m^5n^5$ 79. $64x^3y^7$ 80. $\frac{c^7}{d^3}$ 81. $\frac{p^4}{q^2}$

82. $\frac{4m^5}{5n^4}$ 83. $\frac{3b^2}{4a^2}$ 84. (i) All real #'s except -5, 5. (ii) 1 and 4
or $x \neq \pm 5$

85. (i) All real #'s except 1, 8. (ii) -2
or $x \neq 1, 8$.