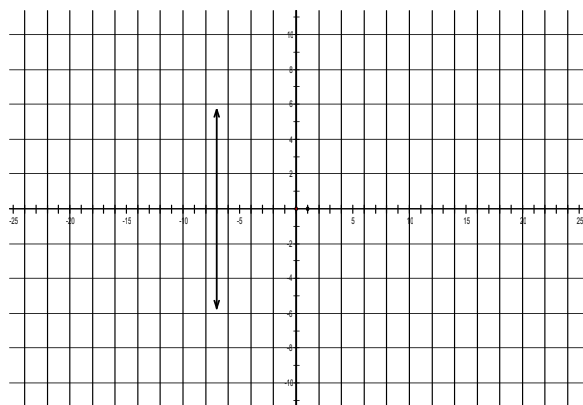


REVIEW MATERIAL FOR Chapter 1(1.1-1.9), Chapter 2(2.1-2.5) and Chapter 3(3.1-3.5, 3.7)1-3.7

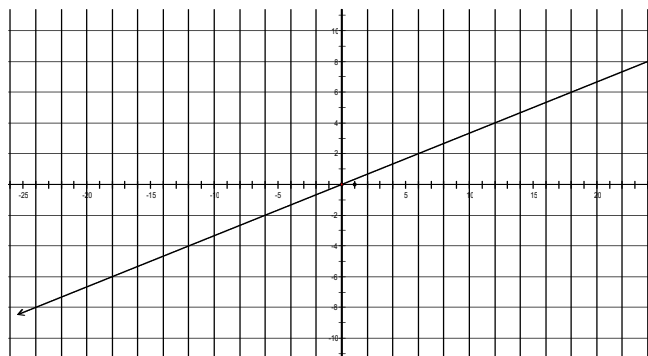
- | | | | | | | | |
|--|---|--|--------------------------------|--------------------------------------|-------------------------------------|--------|---------|
| 1. $3=3$ | 2. $12=12$ | 3. $4 \neq 2$ | 4. $159 \neq 33$ | 5. $5 \neq 2$ | 6. $\frac{3}{2} \neq \frac{89}{76}$ | 7. 18 | 8. 1 |
| 9. 9 | 10. -8 | 11. 45 | 12. -45 | 13. -13 | 14. -15/8 | 15. 10 | 16. 2/5 |
| 17. $5.8s + 5.3t$ | 18. $-31x - 58y$ | 19. $12f - 68$ | 20. $-20x^2 - 18x$ | | | | |
| 21. $3x^3y^2 - 2x^2y^3 + \frac{1}{3}xy^4$ | 22. $-22r - 31s$ | 23. $-6y$ | 24. $-12g + 33$ | | | | |
| 25. $u = 13$ | 26. $d = -12$ | 27. $k = 3$ | 28. $c = 0$ | | | | |
| 29. $n = -2$ | 30. $n = 36$ | 31. All real numbers $\mathbb{R}$ | 32. No solution $\emptyset$ | | | | |
| 33. $x = 4$ | 34. $x = -2$ | 35. No solution $\emptyset$ | 36. $x = 35/53$ | | | | |
| 37. $W = \frac{P-2L}{2}$ | 38. $P = \frac{A}{1+rt}$ | 39. $F = \frac{9}{5}C + 32$ | 40. $b_2 = \frac{2A}{h} - b_1$ | | | | |
| 41. $A = \$360, J = \240 | 42. $F = 46, B = 22$ | 43. First = 9×24
Second = 14×22 | 44. 28 apples | | | | |
| 45. $P = 68, N = 34$
$D = 30, Q = 15$ | 46. $\$3500 @9\%$
$\$2500 @12\%$ | 47. City = 38 kmh | 48. 400 m | | | | |
| 49. $S = 3, A = 5$ | 50. 4km | 51. 20/3 mL | 52. 26/3 kg | | | | |
| 53. False | 54. True | 55. False | 56. True | 57. True | 58. True | | |
| 59. $x = \frac{21}{2} \text{ or } \frac{-39}{2}$ | 60. $x = \frac{11}{4} \text{ or } \frac{-5}{4}$ | 61. $x = \frac{14}{3} \text{ or } \frac{-2}{3}$ | 62. $\emptyset$ | | | | |
| 63. $\left(\frac{4}{9}, \infty\right)$ | 64. $\left[-\infty, \frac{4}{3}\right]$ | 65. $\left[-\infty, \frac{-11}{20}\right]$ | 66. $\emptyset$ | 67. $(-\infty, -1) \cup (3, \infty)$ | | | |

68. $(\infty, -1)$ 69. $\left(-\infty, \frac{3}{2}\right)$ 70. $(-\infty, \infty)$ 71. $\emptyset$ 72. $\left(-\infty, \frac{3}{7}\right]$
73. $y = -1$ 74. $(-1, 2)$ 75. $(-6, -3)$ 76. $[-2, 6]$ 77. $(-\infty, \infty)$
78. $(-1, 8)$ 79. $(-2, 4)$ 80. $(-\infty, -6) \cup (8, \infty)$ 81. $\left(-\infty, \frac{3}{2}\right) \cup (7, \infty)$ 82. $(12, \infty)$
83. SAME AS 74 84. $(-1, 5]$ 85. $\left(-\infty, \frac{3}{4}\right] \cup \left[\frac{9}{4}, \infty\right)$ 86. $\emptyset$ 87. $(-\infty, \infty)$
88. $[-4, -1] \cup [3, 6]$ 89. $(-\infty, 1]$ 90. $[-12, 12]$ 91. $\left[\frac{-a-c}{b}, \frac{-a+c}{b}\right]$ 92. $\left(\frac{a-c}{b}, \frac{-a+c}{b}\right)$
93. $|p-1| < 0.01$ 94. $|s-55| < 3$ 95. $15 < \text{side} < 30$ 96. $\geq 160 \text{ min}$ 97. $\leq 2.5 \text{ min}$
98. $(4, 5, 6)$ or $(5, 6, 7)$ or $(6, 7, 8)$ 99. $m = -1$ 100. $m = \frac{-105}{8}$ 101. $m = 0$ 102. $m = \frac{-2}{3}$
103. $k = 1$ 104. $k = 2$ 105. $\left(\frac{27}{4}, 0\right) \text{ and } (0, -9)$ 106. $\left(\frac{40}{3}, 0\right) \text{ and } (0, -60)$
107. SEE LAST PAGE OF ANSWER KEY 108. SEE LAST PAGE OF ANSWER KEY
109. SEE LAST PAGE OF ANSWER KEY 110. SEE LAST PAGE OF ANSWER KEY
111. SEE LAST PAGE OF ANSWER KEY 112. SEE LAST PAGE OF ANSWER KEY
113. $6x - 30y = -43$ 114. $2x - 5y = -24$ 115. $x = -2$ 116. $y = 0$ 117. $y = 6$ 118. $x = -4$
119. $x + 2y = 5$ 120. $(3, -5)$ 121. $\left(\frac{27}{11}, \frac{-5}{11}\right)$ 122. $\emptyset$ 123. $(x, y) | 2x + 4y = 16$
**solutions are all points on the line
124. SEE LAST PAGE OF ANSWER KEY 125. SEE LAST PAGE OF ANSWER KEY

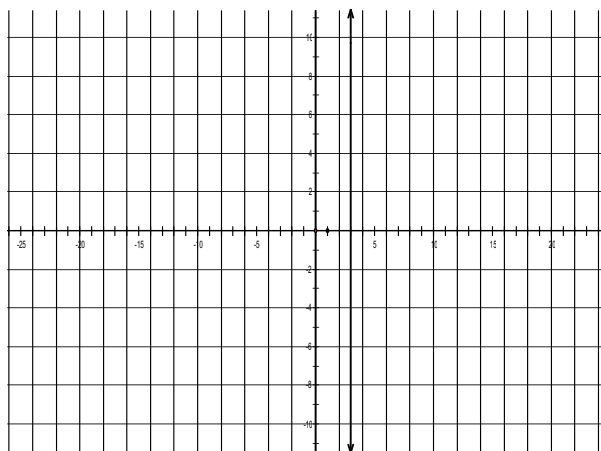
107.



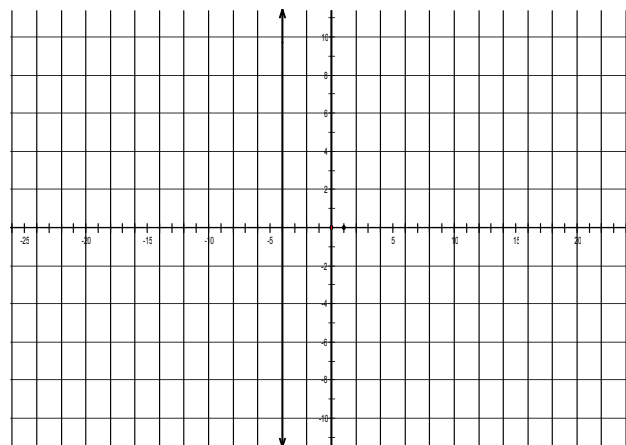
108.



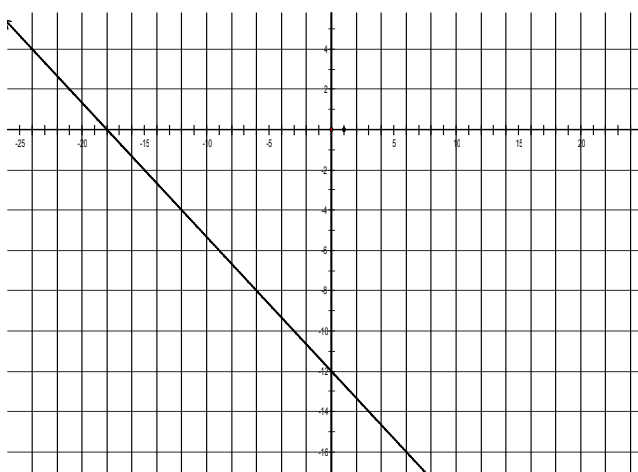
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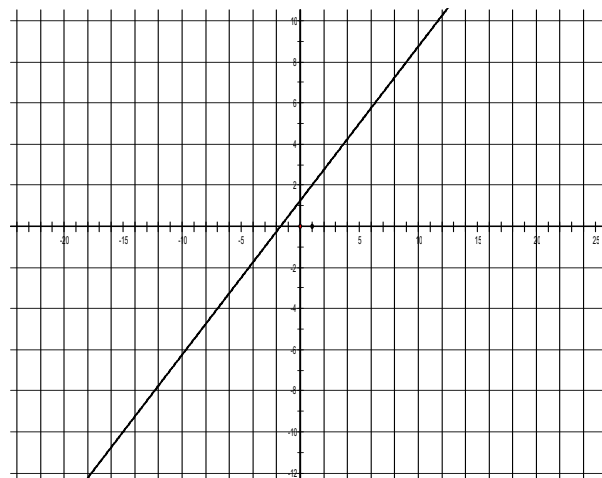
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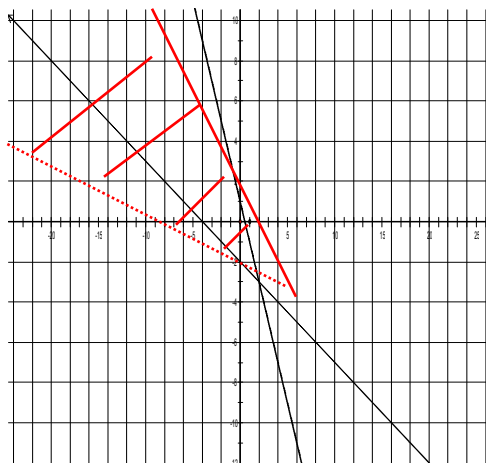
111.



112.



124.



125,

