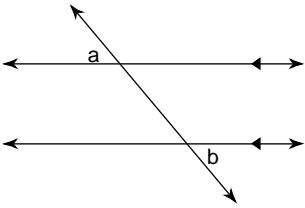


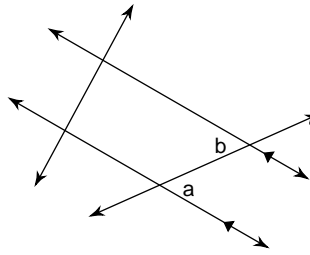
JUNE EXAM REVIEW MATERIAL Set A

Name the relationship: complementary, supplementary, vertical, adjacent, alternate interior, corresponding, or alternate exterior.

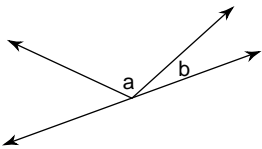
1)



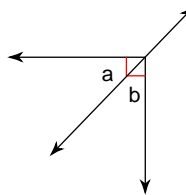
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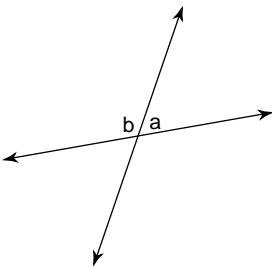
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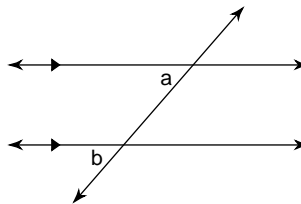
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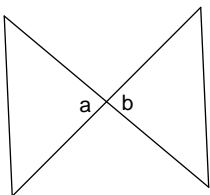
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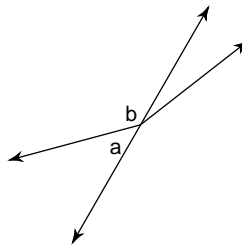
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7)

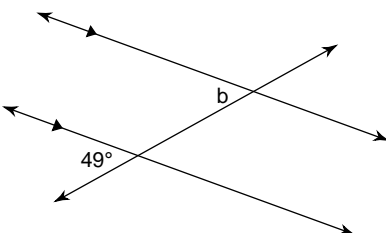


8)

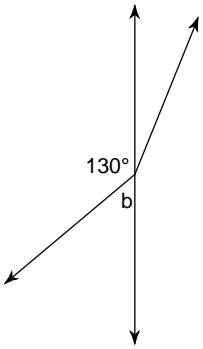


Find the measure of angle b.

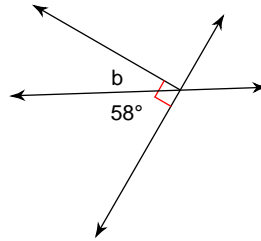
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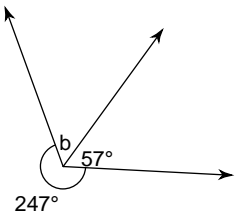
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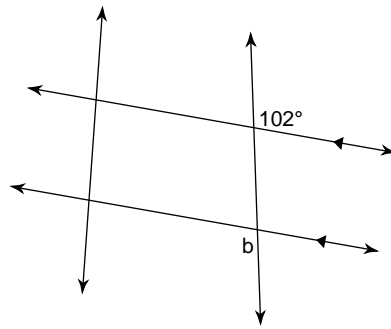
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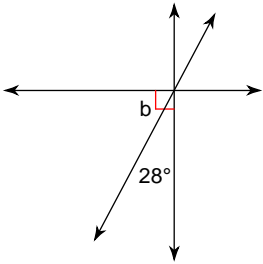
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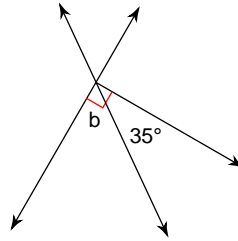
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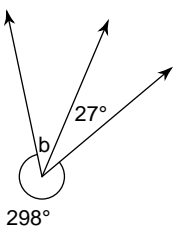
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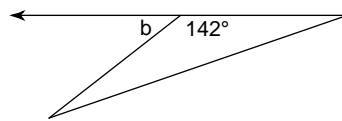
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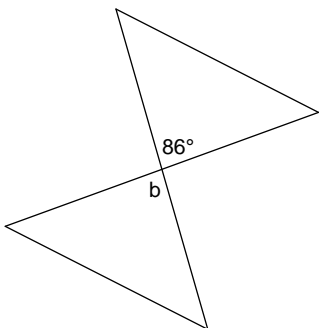
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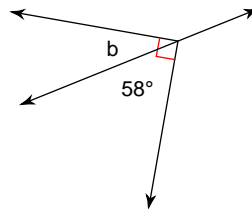
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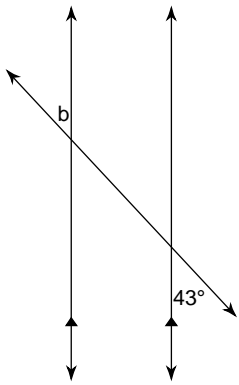
18)



19)

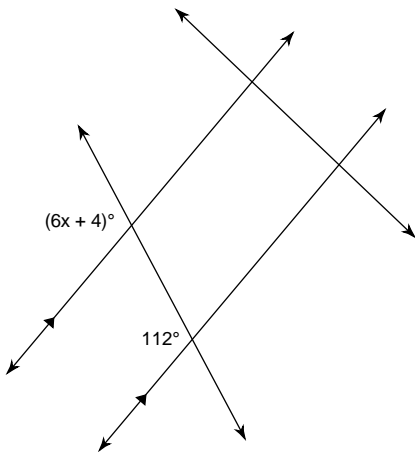


20)

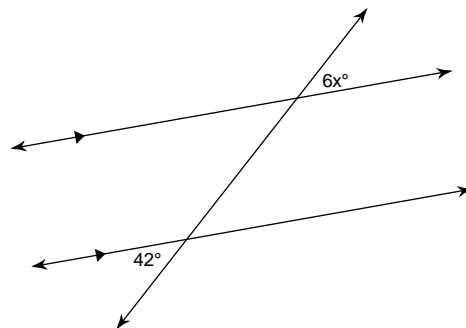


Find the value of x.

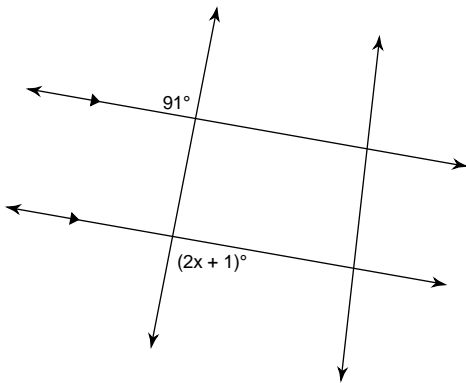
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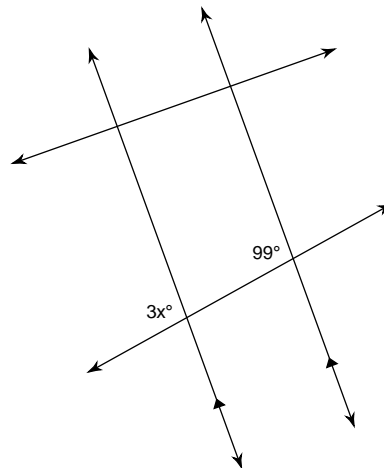
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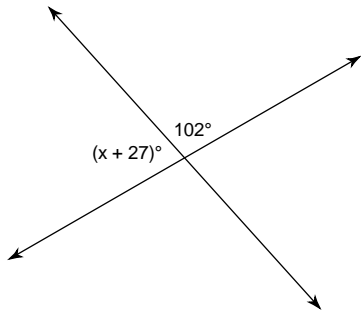
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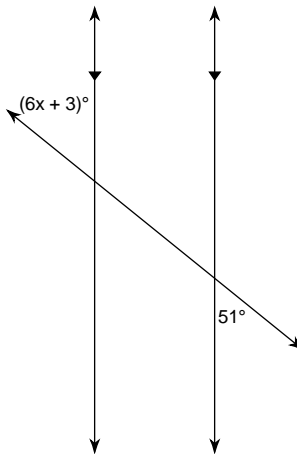
24)



25)

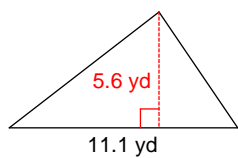


26)

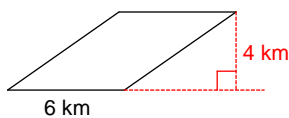


Find the area of each.

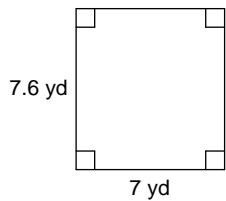
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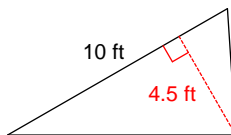
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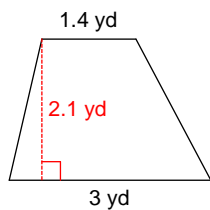
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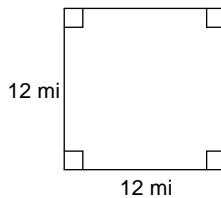
30)



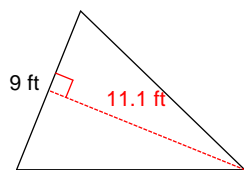
31)



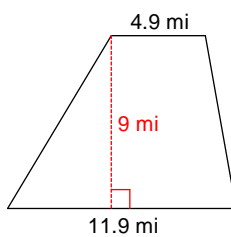
32)



33)

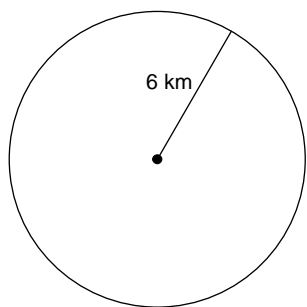


34)

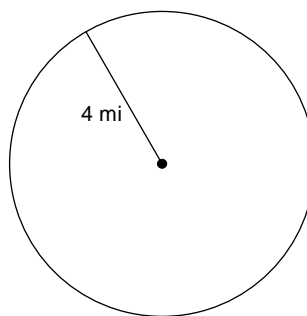


Find the area of each. Round to the nearest tenth.

35)



36)



Simplify each expression.

37) $-7b - 6b$

38) $-6b - 9b$

39) $10x + 8x$

40) $-7k - 10k$

41) $-2p + p$

42) $5a + 2a$

43) $3(6 - 2x)$

44) $-8(5r - 10)$

45) $10(-7a + 2)$

46) $-5(3k - 7)$

47) $-4n - 8(5 - 6n)$

48) $-7b + 10(5b - 5)$

49) $6 + 9(-1 + 5n)$

50) $3(p - 8) - 10$

51) $7(9 + 3m) + 2(10 - 4m)$

52) $-8(9n - 1) + 4(9n - 6)$

53) $8(b + 4) + 7(4b - 9)$

54) $3(9n - 5) + 9(6n - 10)$

Solve each equation.

55) $5 - 4m - 6m = 5$

56) $-6x + 4x = -4$

57) $4n + n = -20$

58) $-3 + 3x - 5x = -3$

59) $-5(x - 5) = 45$

60) $7(5x - 8) = 49$

61) $-6(1 + n) = 24$

62) $-(-2 + 6p) = 8$

63) $-6(x - 3) + 3(x + 7) = x + 8 + x + 1$

64) $4(n - 7) = 3(n - 5) - 5$

65) $-3r + 7(1 - 2r) = 4 - 5(4 + 8r)$

66) $-4(1 + 4k) + 2(7k + 8) = -7k + 3k$

67) Alberto is cooking a cake. The recipe calls for 8 cups of water. He accidentally put in 9 cups. How many extra cups did he put in?

68) Ryan won 65 pieces of gum playing the bean bag toss at his school's game night. Later, he gave one to each of his friends. He only has 43 remaining. How many did he give away?

69) At a restaurant, Abhasra and her six friends decided to divide the bill evenly. If each person paid \$7 then what was the total bill?

70) If the weight of a package is multiplied by $\frac{3}{4}$ the result is 22.5 pounds. Find the weight of the package.

71) Joe is cooking muffins. The recipe calls for 4 cups of sugar. He accidentally put in $4\frac{4}{9}$ cups. How many extra cups did he put in?

Solve each proportion.

72) $\frac{5}{n} = \frac{10}{3}$

73) $\frac{9}{8} = \frac{5}{5k}$

74) $\frac{m}{8} = \frac{4}{7}$

75) $\frac{v}{2} = \frac{3}{10}$

76) $\frac{4}{3} = \frac{3}{k}$

77) $\frac{2}{a} = \frac{9}{6}$

Solve each equation.

78) $113 = -6b - 1$

79) $79 = -8p + 7$

80) $\frac{x - 2}{15} = 1$

81) $-9a - 7 = 119$

82) $-9n + 6 = -102$

83) Heather had some candy to give to her five children. She first took five pieces for herself and then evenly divided the rest among her children. Each child received two pieces. With how many pieces did she start?

84) Cody won 72 pieces of gum playing basketball at the county fair. At school he gave three to every student in his math class. He only has 6 remaining. How many students are in his class?

85) On Tuesday Anjali bought nine posters. On Wednesday half of all the posters that she had were destroyed. On Thursday there were only 19 left. How many did she have on Monday?

86) Mike had some candy to give to his four children. He first took ten pieces for himself and then evenly divided the rest among his children. Each child received five pieces. With how many pieces did he start?

87) On Tuesday Maria bought nine CDs. On Wednesday half of all the CDs that she had were destroyed. On Thursday there were only 22 left. How many did she have on Monday?

88) Castel spent half of his weekly allowance on clothes. To earn more money his parents let him weed the garden for \$8. What is his weekly allowance if he ended with \$12?

Evaluate each using the values given.

89) $y + x^2 - x$; use $x = 1$, and $y = 5$

90) $p^2 + m + 2$; use $m = 2$, and $p = 6$

91) $y^2 - x + y$; use $x = 1$, and $y = 3$

92) $z - (6 - (y - 1))$; use $y = 3$, and $z = 5$

Simplify. Your answer should contain only positive exponents.

93) $5a^0 \cdot 7a^{-2}$

94) $6b^0 \cdot 5b^0$

95) $4n^{-4} \cdot n^4 \cdot 3n^{-1}$

96) k^3k^2

97) $3n^2 \cdot 7n^3$

98) $2v^0 \cdot 4v$

99) $\frac{(a^4b^3)^2}{4ab^4 \cdot 3a^{-2}b^3}$

100) $\left(\frac{(2a^{-4}b^4)^{-4}}{b^{-2} \cdot a^{-3}b^2}\right)^0$

101) $\frac{(3vu^4)^2}{(2u^0v^0)^3 \cdot 2u^4}$

102) $\frac{(4x^4y^{-1})^2}{3yx^4 \cdot 4y^4}$

103) $\left(\frac{x^3 y^{-4}}{x^3 y^3 \cdot 2x^3 y^2}\right)^{-4}$

104) $\frac{(2a^{-4}b^2)^4}{2a^3b^2 \cdot 4a^2b^2}$

105) $\left(\frac{(4m^3n^4)^0(4nm^2)^0}{2m^0}\right)^0$

106) $\frac{3v^4 \cdot vu^4}{(3v^4)^4}$

107) $\frac{3m^0n^{-2} \cdot 4m^4n^4}{(3m^0n^4)^4}$

108) $\left(\frac{n^3}{(n^{-3})^{-4}}\right)^2$

109) $\frac{4v}{(3v^0)^3}$

110) $\left(\frac{(2k^3)^2}{(k^0)^3}\right)^{-1}$

111) $\frac{(3m^{-1})^0}{2m}$

112) $\frac{(4a^3)^4}{4a^{-4} \cdot 3a^{-3}}$

113) $\left(\frac{k^{-3}}{4k^0 \cdot 4k^{-3}}\right)^3$

114) $\frac{(3n^{-2} \cdot n^{-1})^4}{(2n^{-2})^2}$

115) $\frac{3k^{-2}}{(k^{-1}k^0)^3}$

116) $\frac{n^2}{6n^3}$

117) $\frac{4a^4}{7a}$

118) $\frac{8n^2}{5n^2}$

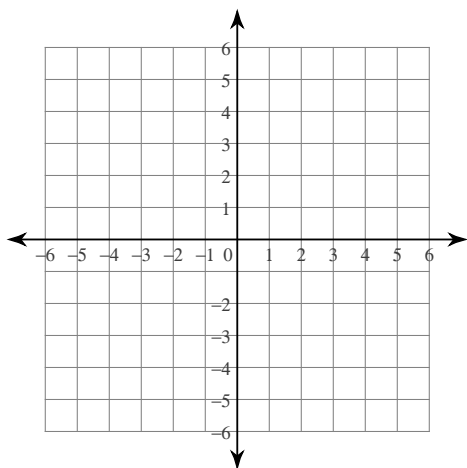
119) $\frac{5k}{k^4}$

120) $\frac{6x^2}{7x}$

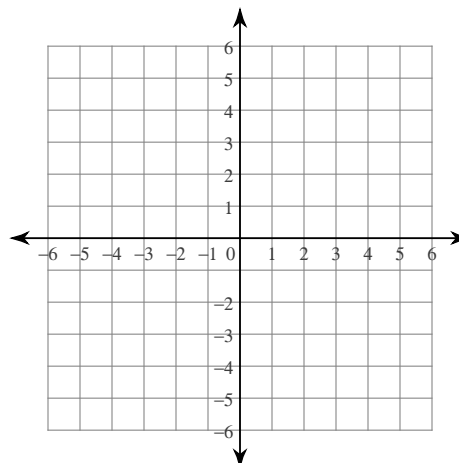
121) $\frac{7p}{8p^4}$

Sketch the graph of each line.

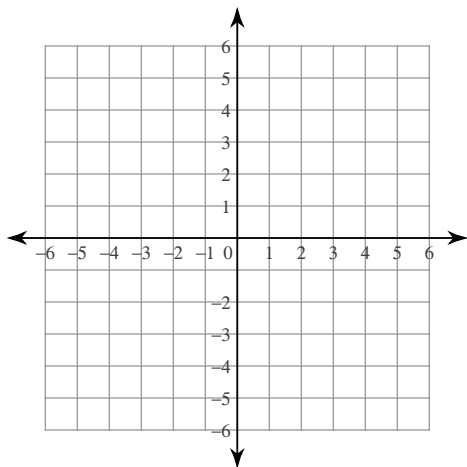
122) $y = 2x - 3$



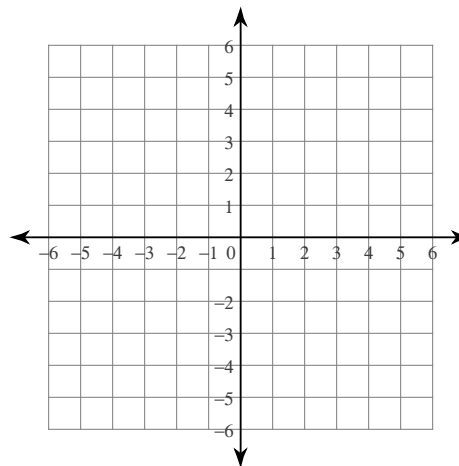
123) $y = -\frac{9}{2}x - 4$



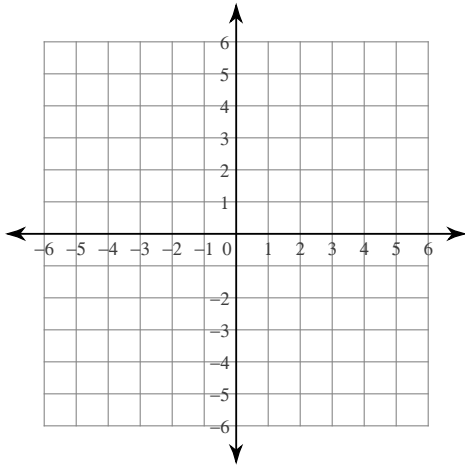
124) $y = \frac{1}{2}x + 2$



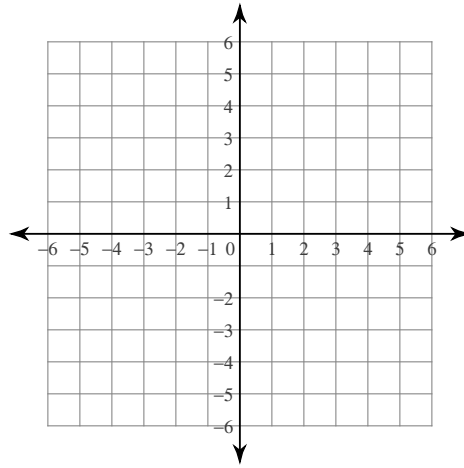
125) $y = x + 3$



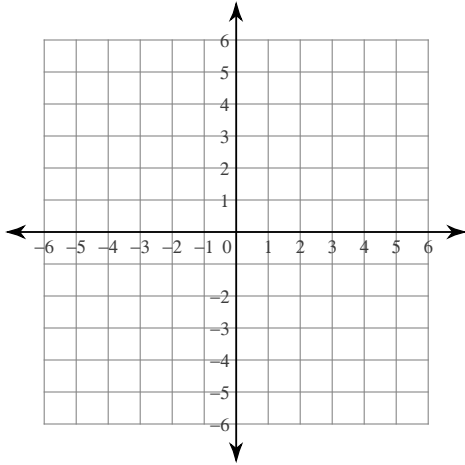
126) x-intercept = -1 , y-intercept = 5



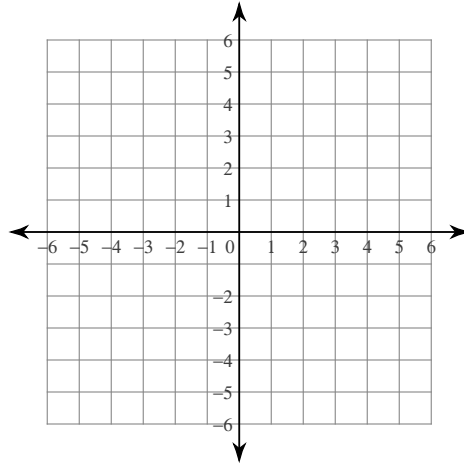
127) x-intercept = 2 , y-intercept = 3



128) x-intercept = 3 , y-intercept = -2



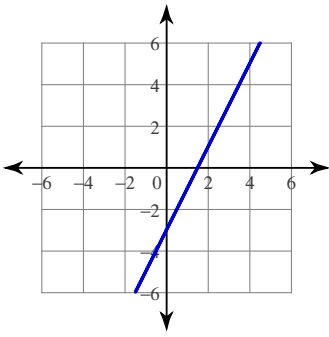
129) x-intercept = -3 , y-intercept = 5



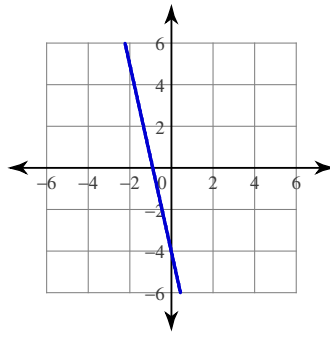
Answers to JUNE EXAM REVIEW MATERIAL Set A

- | | | | |
|---------------------------|-----------------------------|------------------------------|----------------------------|
| 1) alternate exterior | 2) alternate interior | 3) adjacent | 4) complementary |
| 5) supplementary | 6) corresponding | 7) vertical | 8) supplementary |
| 9) 49° | 10) 50° | 11) 32° | 12) 56° |
| 13) 102° | 14) 62° | 15) 55° | 16) 35° |
| 17) 38° | 18) 86° | 19) 32° | 20) 43° |
| 21) 18 | 22) 7 | 23) 45 | 24) 33 |
| 25) 51 | 26) 8 | 27) 31.08 yd^2 | 28) 24 km^2 |
| 29) 53.2 yd^2 | 30) 22.5 ft^2 | 31) 4.62 yd^2 | 32) 144 mi^2 |
| 33) 49.95 ft^2 | 34) 75.6 mi^2 | 35) 113.1 km^2 | 36) 50.3 mi^2 |
| 37) $-13b$ | 38) $-15b$ | 39) $18x$ | 40) $-17k$ |
| 41) $-p$ | 42) $7a$ | 43) $18 - 6x$ | 44) $-40r + 80$ |
| 45) $-70a + 20$ | 46) $-15k + 35$ | 47) $44n - 40$ | 48) $43b - 50$ |
| 49) $-3 + 45n$ | 50) $3p - 34$ | 51) $83 + 13m$ | 52) $-36n - 16$ |
| 53) $36b - 31$ | 54) $81n - 105$ | 55) $\{0\}$ | 56) $\{2\}$ |
| 57) $\{-4\}$ | 58) $\{0\}$ | 59) $\{-4\}$ | 60) $\{3\}$ |
| 61) $\{-5\}$ | 62) $\{-1\}$ | 63) $\{6\}$ | 64) $\{8\}$ |
| 65) $\{-1\}$ | 66) $\{-6\}$ | 67) 1 | 68) 22 |
| 69) \$49 | 70) 30 | 71) $\frac{4}{9}$ | 72) $\{1.5\}$ |
| 73) $\{0.88\}$ | 74) $\{4.57\}$ | 75) $\{0.6\}$ | 76) $\{2.25\}$ |
| 77) $\{1.33\}$ | 78) $\{-19\}$ | 79) $\{-9\}$ | 80) $\{17\}$ |
| 81) $\{-14\}$ | 82) $\{12\}$ | 83) 15 | 84) 22 |
| 85) 29 | 86) 30 | 87) 35 | 88) \$8 |
| 89) 5 | 90) 40 | 91) 11 | 92) 1 |
| 93) $\frac{35}{a^2}$ | 94) 30 | 95) $\frac{12}{n}$ | 96) k^5 |
| 97) $21n^5$ | 98) $8v$ | 99) $\frac{a^9}{12b}$ | 100) 1 |
| 101) $\frac{9v^2u^4}{16}$ | 102) $\frac{4x^4}{3y^7}$ | 103) $16y^{36}x^{12}$ | 104) $\frac{2b^4}{a^{21}}$ |
| 105) 1 | 106) $\frac{u^4}{27v^{11}}$ | 107) $\frac{4m^4}{27n^{14}}$ | 108) $\frac{1}{n^{18}}$ |
| 109) $\frac{4v}{27}$ | 110) $\frac{1}{4k^6}$ | 111) $\frac{1}{2m}$ | 112) $\frac{64a^{19}}{3}$ |
| 113) $\frac{1}{4096}$ | 114) $\frac{81}{4n^8}$ | 115) $3k$ | 116) $\frac{1}{6n}$ |
| 117) $\frac{4a^3}{7}$ | 118) $\frac{8}{5}$ | 119) $\frac{5}{k^3}$ | 120) $\frac{6x}{7}$ |
| 121) $\frac{7}{8p^3}$ | | | |

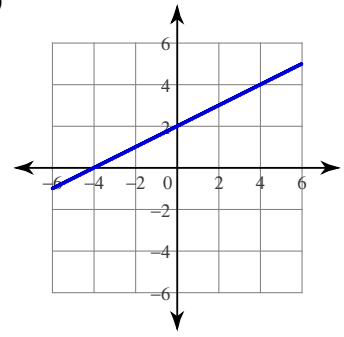
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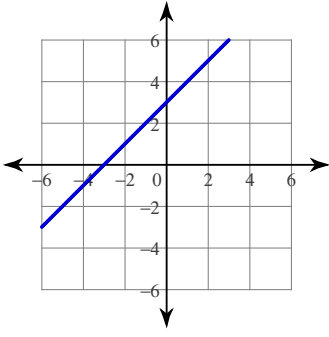
123)



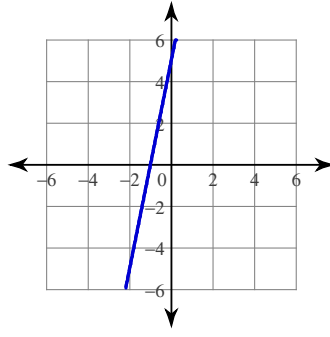
124)



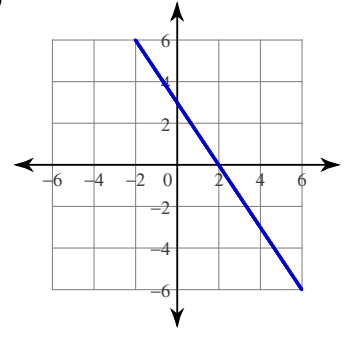
125)



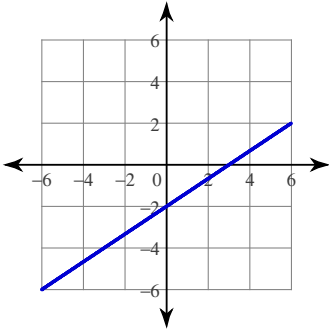
126)



127)



128)



129)

