

Systems of Equations	<ul style="list-style-type: none"> • Solve System of Equations: <ul style="list-style-type: none"> ○ Graphically ○ Substitution ○ Elimination • Real-World Applications
Inequalities	<ul style="list-style-type: none"> • Solve an inequality (One-Step, Two-Step, Multi-Step) • Solving Linear Inequalities • Solve system of inequalities
Radical & Rational Functions	<ul style="list-style-type: none"> • Simplify & perform operations with radical expressions • Solve radical equations • Simplify, add, subtract, multiply, and divide rational expressions • Divide polynomials • Solve rational equations

DON'T PANIC if you're rusty on (or just haven't ever seen) some of the topics listed on this sheet. You have access to videos that will help you to refresh your memory and review these skills. Visit <http://www.hamilton.k12.nj.us/webpages/ishari/> and check out the **Online Math Video Lessons** subpage to the left. There are at least two different links which provide great resources for your review. "**Patrick: Just Math Tutorials**", "**Brightstorm**" and "**ALGEBASIC**" cover a variety of math objectives and a variety of examples that are shown in a video format. Your task is to identify the objective you're interested in reviewing; then watch the video that comes with it. Most of the time, there are illustrated examples following these videos. I encourage you to attempt these examples as a way of checking your understanding of the objective being discussed.

I highly encourage you to use Khan Academy (www.khanacademy.org) as a means to review these skills.

Under the same webpage, there are several subpages which will target specific math concepts. Some of the subpages are:

- a. Fraction Camp
- b. Polynomial Camp
- c. Factoring Camp
- d. Solving Quadratic Equations Camp
- e. Links to Algebra II Series
- f. QR to Algebra II Series (Great videos to refresh your skills. I've attached a copy of the QR codes of these videos to this packet)
- g. Miscellaneous Camps (examples: Radicals ... etc.)

I strongly encourage you to visit each of the subpages, watch the video associated with the topic, and attempt answering questions similar to the topic presented. In some subpages, there are attached "suggested" questions as a pdf file. I encourage you to attempt these problems to refresh your memories on the concepts illustrated there.

On a final note, this packet **with work shown/attached** will be collected the first day of school! Also, you will be taking a **SUMMATIVE ASSESSMENT (test)** on these pre-requisites either on your first day or second day of school. This assessment is to be counted as the first summative assessment (test) grade of the first marking period. If you have any questions or would like further details, please don't hesitate to contact me via email. I will be looking forward to working with you for a successful school year.

Ms. Killion
Ft. Pierce Westwood High School
YOUR Honors Algebra II Teacher

email: tabitha.killion@stlucieschools.org,

This packet is borrowed and revised from its original format created by Mrs. Shari of Hamilton High School West

1) If $y = 1$, then $(x + 5) \cdot y = x + 5$. Which property supports this statement?

2) Name the property used in this example:
 $75 + 6 = 6 + 75$

Evaluate each expression.

3) $8 \div (5 - 3)$

4) $(18 \times 2) \div 6$

5) $\frac{(-26) + 2}{1 - 7}$

6) $\frac{((-30) - (-5)) \times 2}{10}$

7) $\frac{3}{8} + \left(-\frac{8}{5}\right)$

8) $\frac{3}{2} + \frac{2}{3}$

Evaluate each using the values given.

9) $(m - p)(-6m - m)$; use $m = -1$, and $p = 1$

10) $n^2 \div 6 + m - 1$; use $m = 2$, and $n = -6$

Evaluate each expression.

11) $\frac{3}{2} + \left(-\frac{3}{2}\right) + \frac{9}{7} - (-1)$

12) $\frac{1}{3} - 2 + \left(-\frac{1}{2}\right) - \frac{3}{2}$

Simplify each. Write your answer as a mixed number when possible.

13) $\frac{100}{140}$

14) $\frac{288}{252}$

Evaluate each expression.

15) $0.31 - (-3.8)$

16) $(-2.4) - 7.2$

Solve each problem.

17) What is 97% of 20?

18) 11% of 23.3 is what?

Simplify. Write each answer in scientific notation.

19) $(5.7 \times 10^1)(4.9 \times 10^3)$

20) $(9.9 \times 10^{-3})(8 \times 10^1)$

Simplify. Your answer should contain only positive exponents.

21) $6x \cdot 6x^3$

22) $(-2y^{-3})^3$

23) $\frac{2a^4}{5a^2}$

24) $(7p^3)^2$

25) $(-5n^{-4})^2$

26) $7ba^{-4}$

Simplify:

27) $(4x^2 + 6x^4) + (x^4 + x^2)$

28) $(4b^2 + 2b^3) - (6b^3 - 4b^2)$

Find the GCF of each.

29) $36(x - 1)$, $24(x - 1)$

30) $28ab^2$, $8a^2b$

Write each as an algebraic expression.

31) 20 decreased by x

32) r increased by 9 is 19

Simplify each expression.

33) $4(-5k + 8)$

34) $-4n(n - 3) + 4n$

35) $-10(6 - 6r) + 8(-3r + 7)$

36) $-7(10v - 10) - 6(v + 3)$

37) $-6m(1 + 10m) + 7(m + 8)$

Find each product.

39) $3(p - 4)$

41) $8(x^2 + 8x + 5)$

43) $(-5m + 8n)(7m + 6n)$

Solve each equation.

45) $p - 16 = -26$

47) $\frac{3}{8} = \frac{n}{16}$

49) You had \$25 to spend on two notebooks. After buying them you had \$19. How much did each notebook cost?

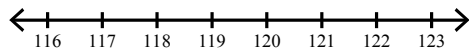
Solve each equation.

51) $2(1 - 2w) = 4w + 18$

53) $1 + 2n - 2 = -9 + n$

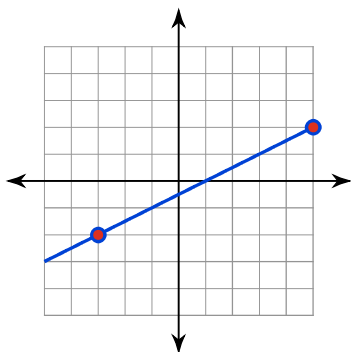
Solve each inequality and graph its solution.

55) $15 < \frac{k}{8}$



Find the slope of each line.

57)



Find the slope of the line through each pair of points.

59) $(11, 17), (-3, 2)$

Find the slope of each line.

61) $y = 4x$

63) $-5y + 10 + 3x = 0$

Solve each system by graphing.

65) $y = 5x - 3$
 $y = -2x + 4$

38) $-3(9x + 3) - (8x + 9)$

40) $(7n + 5)(7n - 8)$

42) $(2n - 6)(2n - 1)$

44) $7x(-x^2 + 6xy - 2y^2)$

46) $\frac{2n + 8}{3} = \frac{n + 7}{2}$

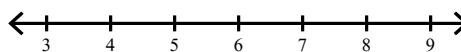
48) $-1 = \frac{-10 + n}{8}$

50) How old am I if 400 reduced by 3 times my age is 157?

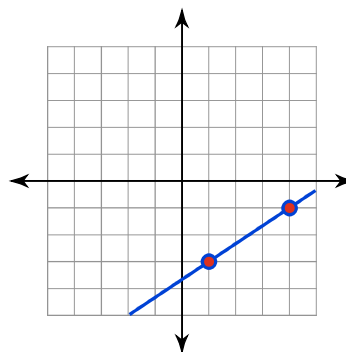
52) $-5(6p + 5) = 185$

54) $5 - 3m = -(5m + 7)$

56) $-164 < -4(6r - 1)$



58)



60) $(-1, -4), (-12, -15)$

62) $y = -x$

64) $-2x - 4y = -12$

66) $y = 3x - 1$
 $y = -4$

Solve each system by substitution.

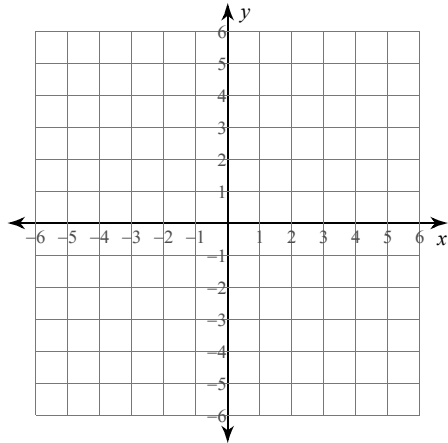
67) $y = -7$
 $2x - 4y = 22$

68) $3x + y = -7$
 $4x - y = -14$

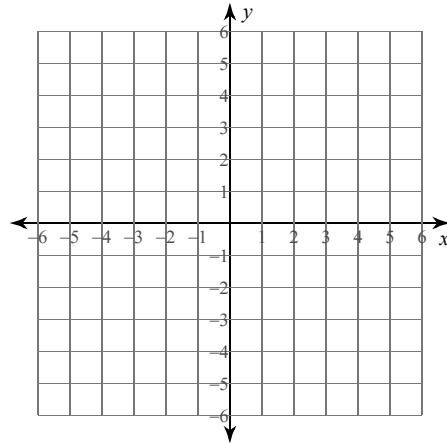
69) Huong bought 8 books for a total of \$204. Math books cost \$26 and English books cost \$25. How many of each type of book did she buy?

Sketch the graph of each linear inequality.

70) $y < 4x + 2$



71) $y > -2x - 4$



72) The area of a trapezoid is $A = \frac{1}{2}h(b_1 + b_2)$.
Solve for b_1 .

73) Solve $A = \frac{a + b}{2}$ for b .

74) A square photograph is being enlarged to poster size by making the length 5 times as large as the original. How many times as large as the area of the original photograph is the area of the poster?

75) A rectangular photograph is being enlarged to poster size by making both the length and width ten times as large as the original. How many times as large as the area of the original photograph is the area of the poster?

76) A rectangle has a length of $5x - 1$ and a width of $x - 2$. Find the area of the rectangle.

77) A rectangle has a length of $3x - 9$ and a width of $x + 1$. Find the area of the rectangle.

78) Without the use of a calculator, order the following from least to largest:

$\sqrt{50}$, $\sqrt{\frac{16}{4}}$, 8 , $\sqrt{49}$, $\sqrt{5}$, $\sqrt{144}$, $\sqrt{25}$, $\sqrt{85}$

Answers to

1) Identity Property of Multiplication

2) Commutative Property of Addition

3) 4

4) 6

5) 4

6) -5

7) $-\frac{49}{40}$

8) $\frac{13}{6}$

9) -14

10) 7

11) $\frac{16}{7}$

12) $-\frac{11}{3}$

13) $\frac{5}{7}$

14) $1\frac{1}{7}$

15) 4.11

16) -9.6

17) 19.4

18) 2.6

19) 2.793×10^5

20) 7.92×10^{-1}

21) $36x^4$

22) $\frac{-8}{y^9}$

23) $\frac{2a^2}{5}$

24) $49p^6$

25) $\frac{-25}{n^8}$

26) $\frac{7b}{a^4}$

27) $7x^4 + 5x^2$

28) $-4b^3 + 8b^2$

29) $12(x - 1)$

30) $4ab$

31) $20 - x$

32) $r + 9 = 19$

33) $-20k + 32$

34) $-4n^2 + 16n$

35) $-4 + 36r$

36) $-76v + 52$

37) $m - 60m^2 + 56$

38) $-35x - 18$

39) $3p - 12$

40) $49n^2 - 21n - 40$

41) $8x^2 + 64x + 40$

42) $4n^2 - 14n + 6$

43) $-35m^2 + 26mn + 48n^2$

44) $-7x^3 + 42x^2y - 14xy^2$

45) $\{-10\}$

46) $\{5\}$

47) $\{6\}$

48) $\{2\}$

49) \$3

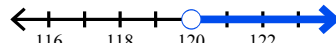
50) 81

51) $\{-2\}$

52) $\{-7\}$

53) $\{-8\}$

54) $\{-6\}$

55) $k > 120$: 

56) $r < 7$: 

57) $\frac{1}{2}$

58) $\frac{2}{3}$

59) $\frac{15}{14}$

60) 1

61) 4

62) -1

63) $\frac{3}{5}$

64) $-\frac{1}{2}$

65) (1, 2)

66) (-1, -4)

67) (-3, -7)

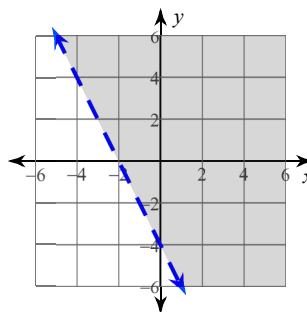
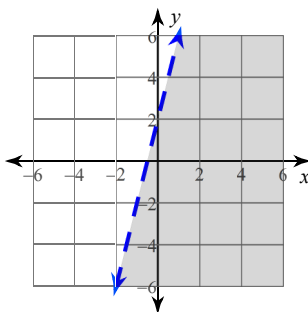
68) (-3, 2)

69) 4 math books and 4 English books

70)

71)

72) $b_1 = \frac{2A}{h} - b_2$



73) $b = 2A - a$

74) 25 times larger

75) 100 times larger

76) $5x^2 - 11x + 2$

77) $3x^2 - 6x - 9$

78) $\sqrt{\frac{16}{4}}, \sqrt{5}, \sqrt{25}, \sqrt{49}, \sqrt{50}, 8, \sqrt{85}, \sqrt{144}$

Solve each system by substitution.

79) $y = 2$
 $y = -2x + 8$

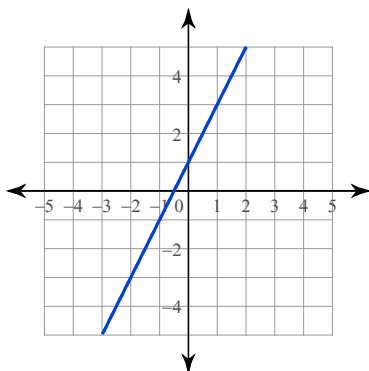
80) $4x + 5y = 23$
 $y = 4x - 5$

81) Eduardo and Jill are selling pies for a school fundraiser. Customers can buy cherry pies and blackberry pies. Eduardo sold 13 cherry pies and 12 blackberry pies for a total of \$185. Jill sold 7 cherry pies and 14 blackberry pies for a total of \$175. What is the cost each of one cherry pie and one blackberry pie?

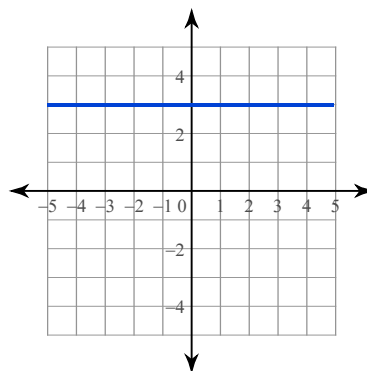
82) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 6 vans and 6 buses with 174 students. High School B rented and filled 8 vans and 7 buses with 211 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.

Write the standard form of the equation of each line.

83)



84)

**Write the standard form of the equation of each line given the slope and y-intercept.**

85) Slope = $-\frac{1}{3}$, y-intercept = -2

86) Slope = $\frac{2}{3}$, y-intercept = -3

Write the standard form of the equation of each line.

87) $y = -\frac{2}{5}x - 3$

88) $y + 1 = -(x - 4)$

Write the standard form of the equation of the line through the given point with the given slope.

89) through: $(2, -3)$, slope = $-\frac{7}{2}$

90) through: $(1, 5)$, slope = 1

Write the standard form of the equation of the line through the given points.

91) through: $(0, 5)$ and $(-4, 0)$

92) through: $(0, 5)$ and $(3, -4)$

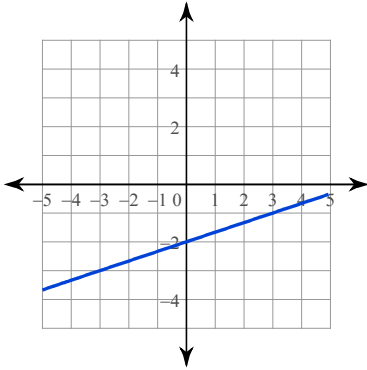
Write the standard form of the equation of the line described.

93) through: $(-2, 5)$, parallel to $y = -5x - 1$

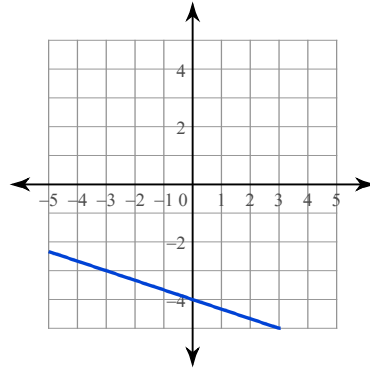
94) through: $(-5, 1)$, perp. to $y = \frac{5}{6}x - 2$

Write the slope-intercept form of the equation of each line.

95)



96)



Write the slope-intercept form of the equation of each line given the slope and y-intercept.

97) Slope = $-\frac{5}{2}$, y-intercept = 2

98) Slope = $\frac{3}{5}$, y-intercept = 0

Write the slope-intercept form of the equation of each line.

99) $5x - 4y = -12$

100) $x - 1 - y = 0$

Write the slope-intercept form of the equation of the line through the given point with the given slope.

101) through: $(1, -2)$, slope = -2

102) through: $(4, 1)$, slope = $\frac{1}{2}$

Write the slope-intercept form of the equation of the line through the given points.

103) through: $(4, -5)$ and $(1, 2)$

104) through: $(3, -2)$ and $(5, 1)$

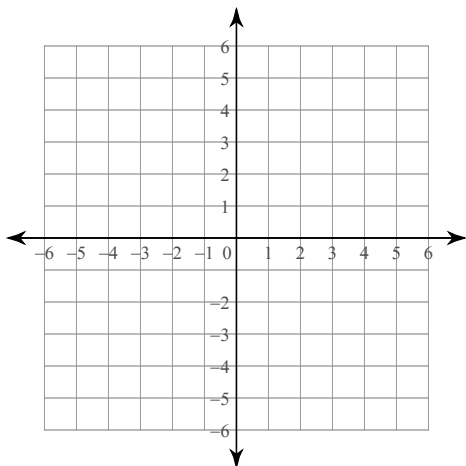
Write the slope-intercept form of the equation of the line described.

105) through: $(3, 2)$, parallel to $y = \frac{1}{3}x - 3$

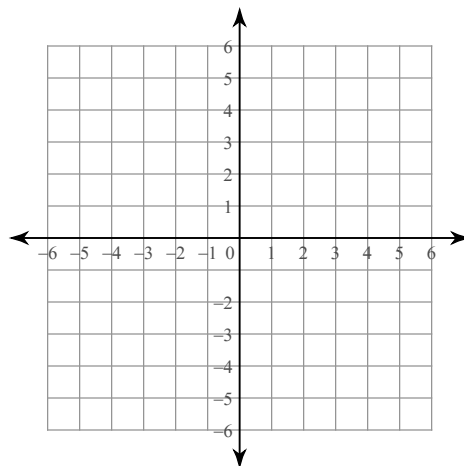
106) through: $(-3, -3)$, perp. to $y = -\frac{3}{5}x - 5$

Sketch the graph of each line.

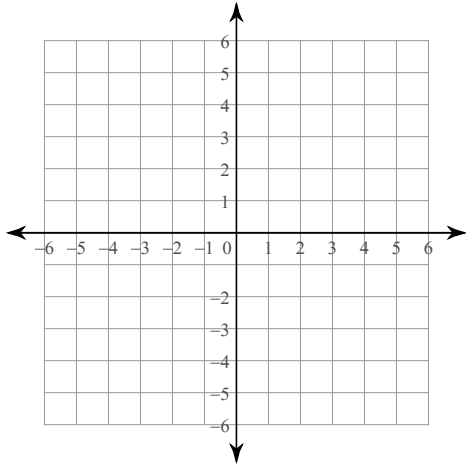
107) x-intercept = -1 , y-intercept = 1



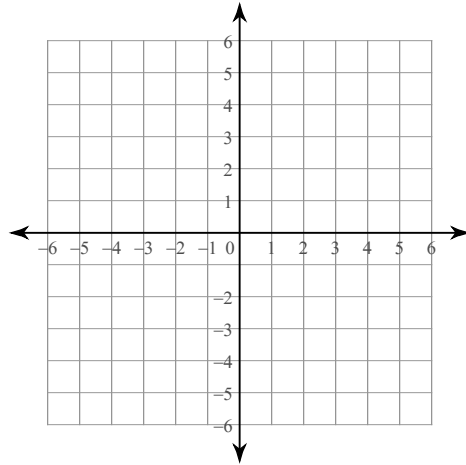
108) $7x + 2y = 6$



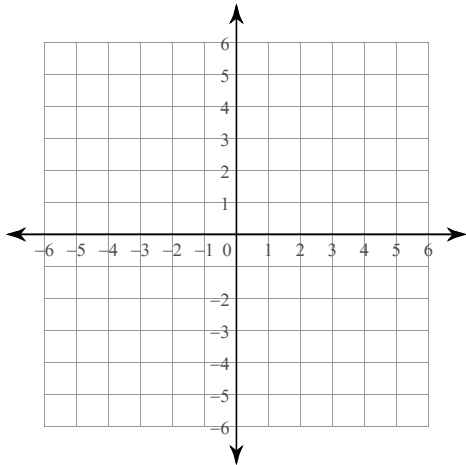
109) $x = 2$



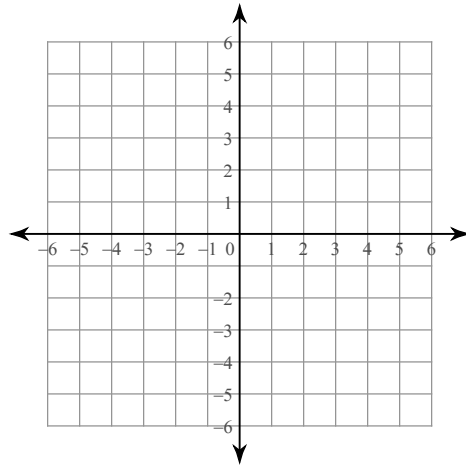
110) $y = 2x - 4$



111) $y = -\frac{5}{4}x$

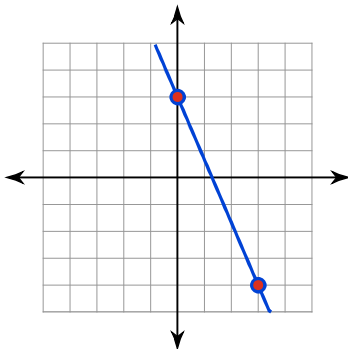


112) $y = -3$



Find the slope of each line.

113)



What is the y-intercept?

115) $(-16, -6), (5, 15)$

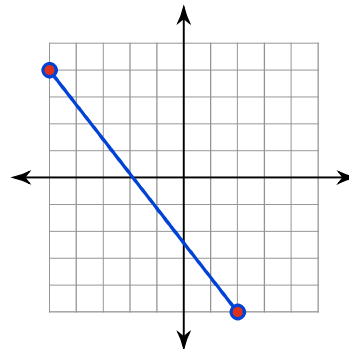
Find the slope of each line.

117) $y = \frac{1}{5}x - 4$

Find the slope of a line parallel to each given line.

119) $y = -x - 3$

114)



116) $(-8, -4), (-6, 0)$

118) $y = 2x - 4$

120) $y = -\frac{8}{3}x - 3$

Find the slope of a line perpendicular to each given line.

121) $y = -1$

122) $y = \frac{3}{4}x - 1$

Name each polynomial by degree and number of terms.

123) $3p$

124) $3r^3 - 10r^2 + 4r$

125) 3

126) $-4v - 2v^2 - 3$

Factor the common factor out of each expression.

127) $-60u^2v^2 + 100u^3 + 10u^2$

128) $63n^3 + 45n^2 + 72n - 81$

Factor each completely.

129) $20k^3 - 4k^2 + 5k - 1$

130) $6m^2 - 216$

131) $9n^2 - 16$

132) $5r^2 - 80$

133) $x^2 - 4x + 4$

134) $2v^2 + 12v + 18$

135) $2m^2 - 18m - 20$

136) $8m^2 + 50m + 63$

Solve each equation by factoring.

137) $a^2 + 11a + 28 = 0$

138) $x^2 + 2x - 3 = 0$

139) $n^2 + 2n = 24$

140) $(3m - 8)(m + 6) = 0$

Solve each equation with the quadratic formula.

141) $12b^2 - 6 = -7b$

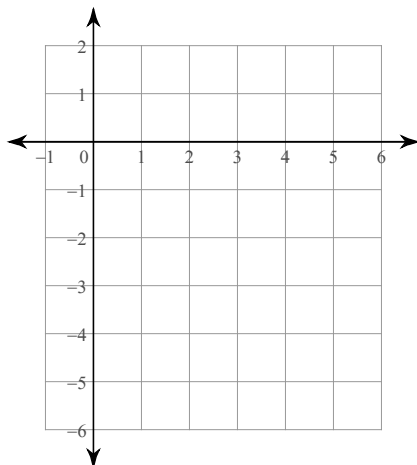
142) $v^2 - 12v = 23$

143) $2x^2 + 7x - 6 = 9$

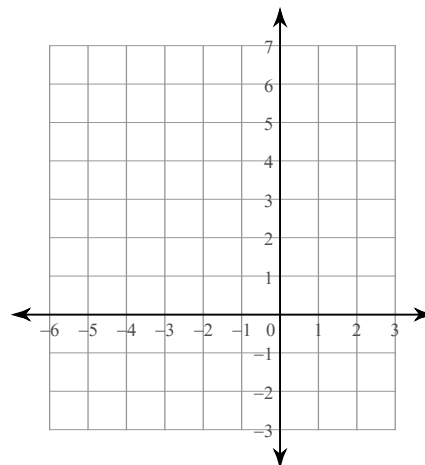
144) $6x^2 - 10x + 3 = 0$

Sketch the graph of each function.

145) $y = x^2 - 8x + 12$



146) $y = 2x^2 + 16x + 30$



Solve each inequality.

147) $-36 \leq 3(3b - 3)$

148) $11 > -2n + 5 \geq 7$

149) John and Amilio leave their school on bikes traveling in opposite directions on a straight road. John rides 3 mi/h faster than Amilio. After 5 h they are 115 mi apart. At what rate does John ride his bike?

150) Sam and Andrew leave the store on motorcycles traveling in opposite directions on a straight road. Sam rides 10 mi/h faster than Andrew. After 7 h they are 350 mi apart. At what rate does Andrew ride his bike?

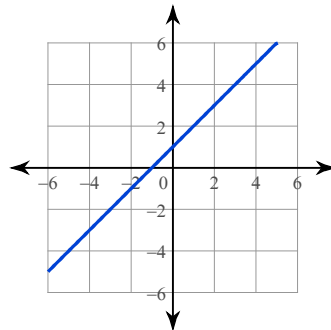
Answers to

- 79) (3, 2)
 82) Van: 8, Bus: 21
 86) $2x - 3y = 9$
 90) $x - y = -4$
 94) $6x + 5y = -25$

- 98) $y = \frac{3}{5}x$
 102) $y = \frac{1}{2}x - 1$
 106) $y = \frac{5}{3}x + 2$

- 80) (2, 3)
 83) $2x - y = -1$
 87) $2x + 5y = -15$
 91) $5x - 4y = -20$

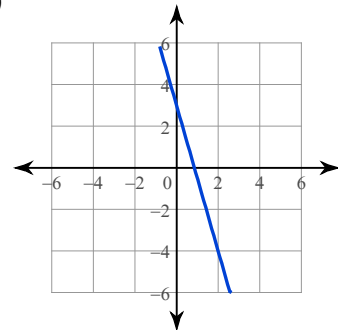
- 95) $y = \frac{1}{3}x - 2$
 99) $y = \frac{5}{4}x + 3$
 103) $y = -\frac{7}{3}x + \frac{13}{3}$
 107)



110)

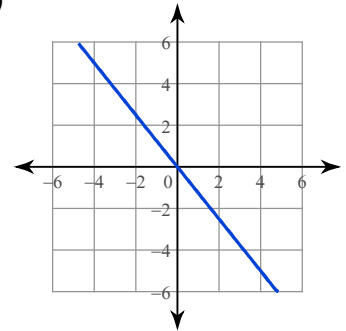
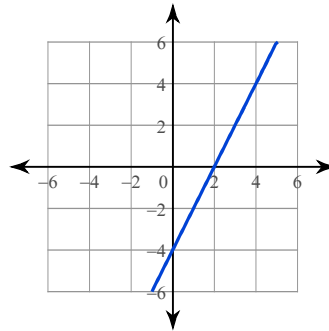
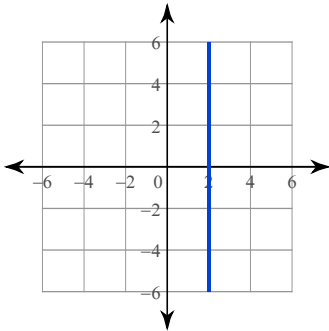
- 81) cherry pie: \$5, blackberry pie: \$10
 84) $y = 3$
 85) $x + 3y = -6$
 88) $x + y = 3$
 89) $7x + 2y = 8$
 92) $3x + y = 5$
 93) $5x + y = -5$
 96) $y = -\frac{1}{3}x - 4$
 97) $y = -\frac{5}{2}x + 2$
 100) $y = x - 1$
 101) $y = -2x$
 104) $y = \frac{3}{2}x - \frac{13}{2}$
 105) $y = \frac{1}{3}x + 1$

108)

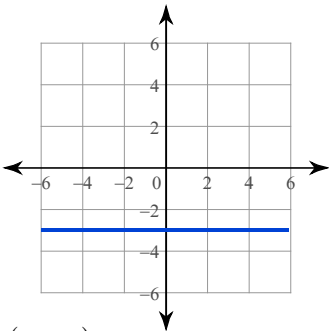


111)

109)



112)



113) $-\frac{7}{3}$

114) $-\frac{9}{7}$

115) (0, 10)

116) (0, 12)

117) $\frac{1}{5}$

118) 2

119) -1

120) $-\frac{8}{3}$

121) Undefined

122) $-\frac{4}{3}$

123) linear monomial

124) cubic trinomial

125) constant monomial

126) quadratic trinomial

127) $10u^2(-6v^2 + 10u + 1)$

128) $9(7n^3 + 5n^2 + 8n - 9)$

129) $(4k^2 + 1)(5k - 1)$

130) $6(m + 6)(m - 6)$

131) $(3n + 4)(3n - 4)$

132) $5(r + 4)(r - 4)$

133) $(x - 2)^2$

134) $2(v + 3)^2$

135) $2(m - 10)(m + 1)$

136) $(4m + 7)(2m + 9)$

137) $\{-7, -4\}$

138) $\{-3, 1\}$

139) $\{4, -6\}$

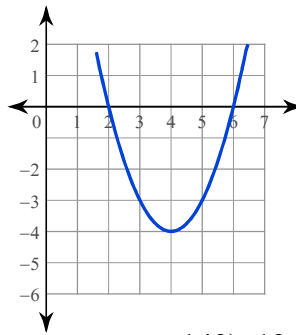
140) $\left\{\frac{8}{3}, -6\right\}$

$$141) \left\{ \frac{-7 + \sqrt{337}}{24}, \frac{-7 - \sqrt{337}}{24} \right\}$$

$$144) \left\{ \frac{5 + \sqrt{7}}{6}, \frac{5 - \sqrt{7}}{6} \right\}$$

$$142) \{6 + \sqrt{59}, 6 - \sqrt{59}\}$$

145)



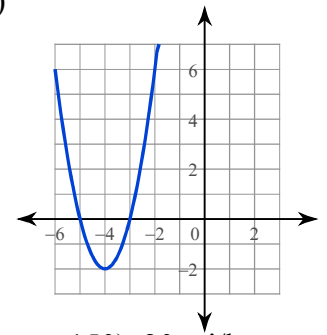
$$147) b \geq -3$$

$$148) -3 < n \leq -1$$

$$149) 13 \text{ mi/h}$$

$$143) \left\{ 1\frac{1}{2}, -5 \right\}$$

146)

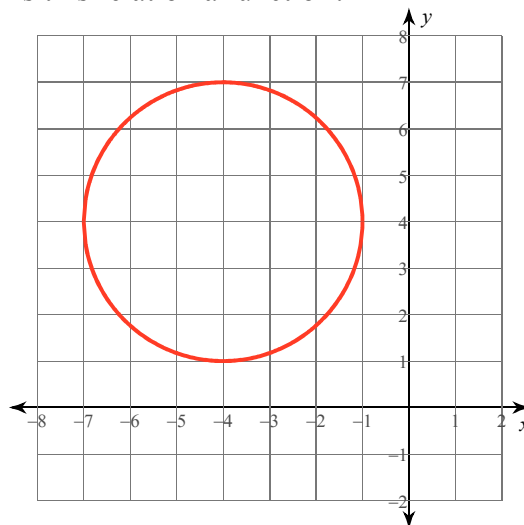


$$150) 20 \text{ mi/h}$$

151) Is this relation a function:

$$\{(1, -5), (2, 4), (1, -4)\}$$

152) Is this relation a function?

**Evaluate each function.**

153) $g(x) = x + 5$; Find $g(-6)$

154) $f(n) = 2n + 4$; Find $f(-3)$

155) $p(x) = 4x - 1$; Find $p(3x)$

156) $h(a) = 3a + 5$; Find $h(y^2)$

Simplify.

157) $\sqrt{18x^2y}$

158) $\sqrt{45u^2v^2}$

159) $\sqrt[3]{-54xy}$

160) $\sqrt[3]{128x^4y^2}$

Solve each equation. Remember to check for extraneous solutions.

161) $-10\sqrt{r} = -100$

162) $12 = 4\sqrt{a}$

163) $2 = \sqrt{n-4}$

164) $6 = \sqrt{x+5}$

Simplify each expression. State excluded values, if any.

165) $\frac{2x-12}{x^2-2x-24}$

166) $\frac{3a^2b^3 - 12a^4b^3 + 6a^4b^2}{3a^2b}$

167) $\frac{v^2-49}{v^2-17v+70}$

168) $\frac{b^2+12b+32}{b^2+14b+48}$

Simplify each expression.

169) $\frac{x-6y}{4x^3} + \frac{6x+2y}{4x^3}$

170) $\frac{2x-6y}{10x^2} - \frac{x+6y}{10x^2}$

171) $\frac{6}{3y} - \frac{4x}{4}$

172) $\frac{p-4}{5p-5} + \frac{6}{2}$

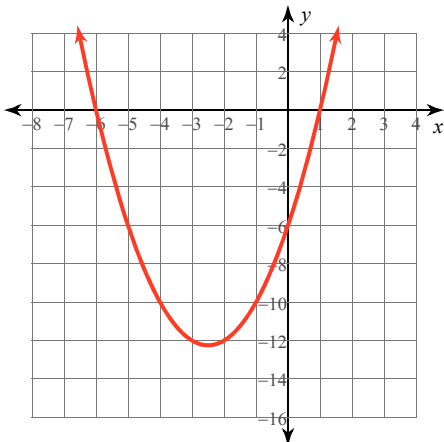
173) $\frac{5n}{n-1} - \frac{3}{n+4}$

174) $\frac{10m}{10} \cdot \frac{3}{3m}$

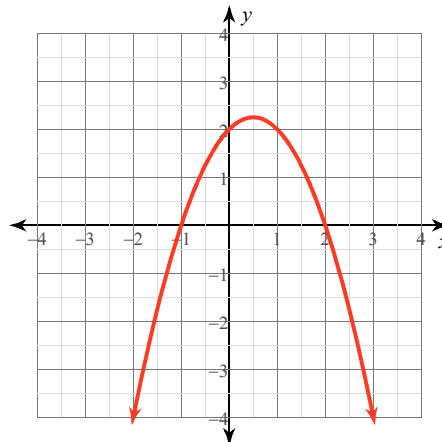
175) $\frac{3r^2}{r+9} \cdot \frac{(r-4)(r+9)}{(r+5)(r-4)}$

176) $\frac{b+10}{8b^2-56b} \cdot \frac{b^2-4b-21}{7b+21}$

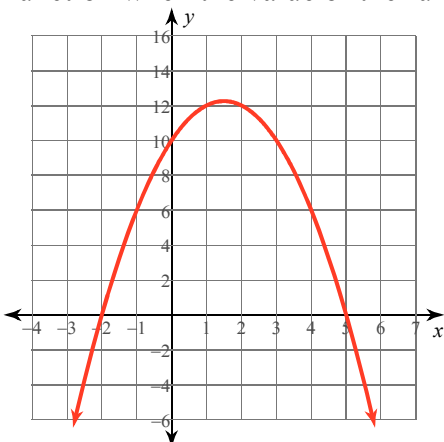
177) What is (are) the solution(s) of the graphed function when the value of the function is 0?



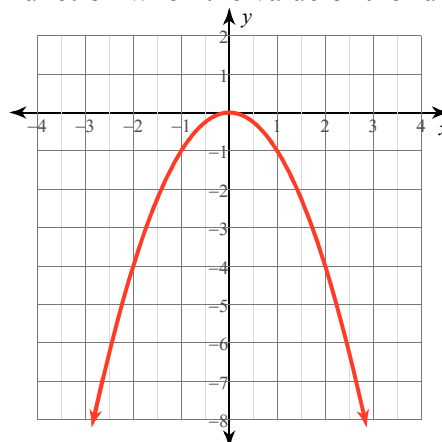
178) What is (are) the solution(s) of the graphed function when the value of the function is 0?



179) What is (are) the solution(s) of the graphed function when the value of the function is 0?



180) What is (are) the solution(s) of the graphed function when the value of the function is 0?



Answers to

151) No, not a function.

154) -2

158) $3uv\sqrt{5}$

162) $\{9\}$

166) $b^2 - 4a^2b^2 + 2a^2b$

170) $\frac{x - 12y}{10x^2}$

174) 1

178) $-6, 1$

152) No, not a function.

155) $12x - 1$

159) $-3\sqrt[3]{2xy}$

163) $\{8\}$

167) $\frac{v + 7}{v - 10}$

171) $\frac{-xy + 2}{y}$

175) $\frac{3r^2}{r + 5}$

179) $-2, 5$

156) $3y^2 + 5$

160) $4x\sqrt[3]{2xy^2}$

164) $\{31\}$

168) $\frac{b + 4}{b + 6}$

172) $\frac{16p - 19}{5(p - 1)}$

176) $\frac{b + 10}{56b}$

180) 0

153) -1

157) $3x\sqrt{2y}$

161) $\{100\}$

165) $\frac{2}{x + 4}$

169) $\frac{7x - 4y}{4x^3}$

173) $\frac{5n^2 + 17n + 3}{(n + 4)(n - 1)}$

177) $-6, 1$

Hamilton High School West
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 ~ re~Assessment ^ e~ie" – , lassio~iations o^ eal ~ mbers

Determine which numbers are natural numbers (*N*), whole numbers (*W*), integers (*Z*), rational numbers (*Q*), irrational numbers (*I*), and/or Real (*R*):

	Natural Number	Whole Number	Integer	Rational	Irrational	Real
2.3030030003...						
0.7575						
-4.63						
$\sqrt{10}$						
-2						
$-0.\overline{03}$						
20						
$\frac{1}{2}\pi$						
$-\sqrt{16}$						
$-\frac{2}{3}$						
7						
$-\sqrt{17}$						
$-\sqrt{4}$						
$\frac{-4}{-4}$						
$\frac{20}{5}$						
0						

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 Pre-Assessment – Classifications of Real Numbers

ANSWERS!

Determine which numbers are natural numbers (*N*), whole numbers (*W*), integers (*Z*), rational numbers (*Q*), irrational numbers (*I*), and/or Real (*R*):

	Natural Number	Whole Number	Integer	Rational	Irrational	Real
2.3030030003...					<i>I</i>	<i>R</i>
0.7575				<i>Q</i>		<i>R</i>
-4.63				<i>Q</i>		<i>R</i>
$\sqrt{10}$					<i>I</i>	<i>R</i>
-2			<i>Z</i>	<i>Q</i>		<i>R</i>
$-\overline{0.03}$				<i>Q</i>		<i>R</i>
20	<i>N</i>	<i>W</i>	<i>Z</i>	<i>Q</i>		<i>R</i>
$\frac{1}{2}\pi$					<i>I</i>	<i>R</i>
$-\sqrt{16}$			<i>Z</i>	<i>Q</i>		<i>R</i>
$-\frac{2}{3}$				<i>Q</i>		<i>R</i>
7	<i>N</i>	<i>W</i>	<i>Z</i>	<i>Q</i>		<i>R</i>
$-\sqrt{17}$					<i>I</i>	<i>R</i>
$-\sqrt{4}$			<i>Z</i>	<i>Q</i>		<i>R</i>
$\frac{-4}{-4}$	<i>N</i>	<i>W</i>	<i>Z</i>	<i>Q</i>		<i>R</i>
$\frac{20}{5}$	<i>N</i>	<i>W</i>	<i>Z</i>	<i>Q</i>		<i>R</i>
0		<i>W</i>	<i>Z</i>	<i>Q</i>		<i>R</i>