

Algebra 1

	Day	Date	Video	Assignment Due	Is it done?
33	Monday	5/4/2020	9.7	399: 3-22	
34	Tuesday	5/5/2020		403: 1-31 [GRAPH 11-31]	
35	Wednesday	5/6/2020	PQ	practice quiz 9.5-7	
36	Thursday	5/7/2020		take quiz - 9.5-7	
37	Friday	5/8/2020		"field trip day" - try to do something fun	
38	Monday	5/11/2020		practice test chapter 9	
39	Tuesday	5/12/2020		take test - Chapter 9	
40	Wednesday	5/13/2020	12.1-2		
41	Thursday	5/14/2020	12.4	496: 1-34; 499: 1-10	
42	Friday	5/15/2020	12.5	505: 8-31	
	Monday	5/18/2020	12.6	510: 1-18, 36	
	How many total did you do:				

Zoom session happen Tues/Thurs at 2:00 for those needing any help

**[NOTE - PRACTICE FINALS ALSO
ARE INCLUDED IN THIS PACKET
IN CASE ANYBODY WANTS TO
START TO WORK AHEAD ON THOSE]**

We usually do these during a school day in May.
Please return this form at the 5-18 dropoff/pickup day.
It helps TMR to work up a class schedule for next year.
Thank you.

Name _____	Grade Next Year _____	2020-21 Pre-Schedule Form	
I expect to be at CCA _____	Elsewhere _____	Don't Know _____	
Math			
General Math _____	Algebra 1 _____	Trigonometry _____	
Pre-Algebra _____	Geometry _____	Calculus _____	
French:			
Yes _____	No _____	Level _____	
Spanish:			
Yes _____	No _____	Level _____	
English _____			
Lunch Help _____			
9th-12th:			
Accelerated _____	Regular _____		
11th/12th:			
Physics _____	Environmental _____		
Electives (Rank your choices starting with 1 for your first choice, ranking anything you think you might take)			
Art _____	Computers _____	Girls Only _____	Speech _____
Boys Only _____	Cook S _____	Health _____	Video Classics _____
Child Dev _____	Debate _____	Keyboarding _____	Worship Team _____
College + Career _____	Drama _____	Money Mgmt _____	

Name _____

Practice Quiz, Algebra 1, 9.5-7

Find the slope and y-intercept.

1. $y = -5x + 1$ slope: _____

inter: _____

2. $y = 3/5x + 7$ slope: _____

inter: _____

3. $y = -2x$ slope: _____

inter: _____

4. $3x + 4y = 7$ slope: _____

inter: _____

Write an equation with the given slope and intercept.

5. slope -3, intercept 4

6. slope $5/8$, intercept -3

7. slope $3/4$, intercept 0

8. slope 0, intercept 5

Graph on graph paper

9. $y = 2/5 x - 2$

10. $4x - 3y = 12$

11. $y = -3/4 x$

12. $3y = 5 x$

13. $y = 3x - 4$

14. $y = 2x$

Determine whether the lines are parallel. Show work.

15. $2y - 3x = 2$ and $-6x + 4y = 11$

Write an equation of the line in standard form.

16. slope is 2, through (0,0)

17. slope is -3, through (-1,3)

18. slope is $\frac{3}{4}$, through $(1,-2)$

19. parallel to $2x + 3y = 4$, through $(-5,4)$

Write an equation of the line in slope-intercept form.

20. through $(1,2)$ and $(5,7)$

21. through $(-1,2)$ and $(2,4)$

22. through $(4,4)$ and $(7,2)$

Write an inequality.

23. The graph is on graph paper

24. The graph is on graph paper

Graph on graph paper

25. $x > -2$

26. $y \leq 3$

27. $y \leq \frac{2}{3}x - 5$

28. $y > 3x$

29. $y \geq 3x - 4$

30. $y < x - 2$

NAME _____

PRACTICE
9.5-7 QUIZ

9-10

11-12

13-14

23

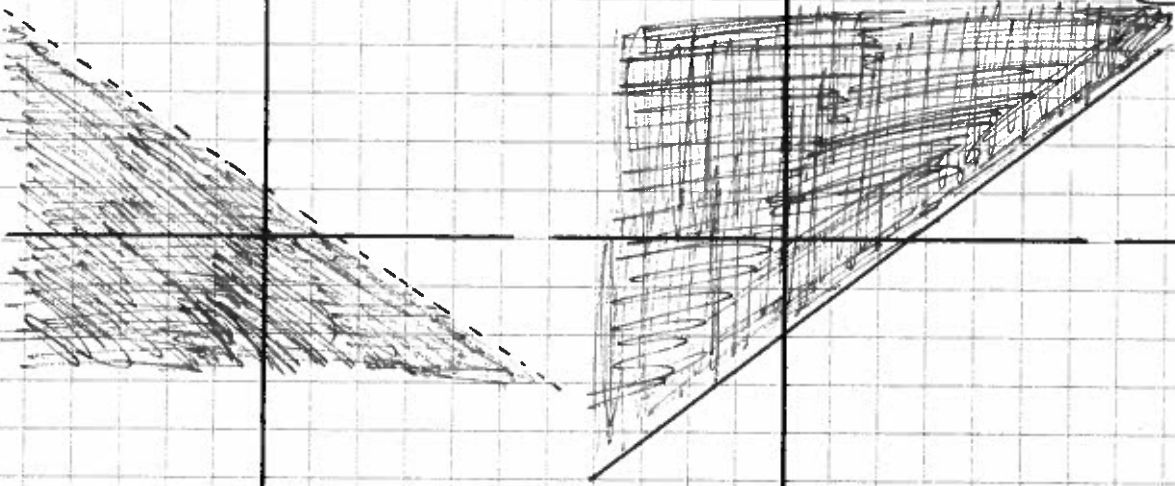
24

25-26

27-28

29

30



Name _____

Quiz, Algebra 1, 9.5-7

Find the slope and y-intercept.

- | | | |
|---------------------|--------------|--------------|
| 1. $y = 4x - 8$ | slope: _____ | inter: _____ |
| 2. $y = -1/2 x - 3$ | slope: _____ | inter: _____ |
| 3. $y = 4x$ | slope: _____ | inter: _____ |
| 4. $2x + 3y = 7$ | slope: _____ | inter: _____ |

Write an equation with the given slope and intercept.

- | | |
|--------------------------------|-------|
| 5. slope 3, intercept 5 | _____ |
| 6. slope $-2/3$, intercept -4 | _____ |
| 7. slope 3, intercept 0 | _____ |
| 8. slope 0, intercept -4 | _____ |

Graph on graph paper

- 9. $y = 2/3 x + 1$
- 10. $4x - 2y = 4$
- 11. $y = -2/3 x$
- 12. $2y = 3 x$
- 13. $y = -2x + 7$
- 14. $y = 4x$

Determine whether the lines are parallel. Show work.

15. $y = -3x + 2$ and $3x + 2y = 7$ _____

Write an equation of the line in standard form.

16. slope is 3, through (0,0) _____
17. slope is -2, through (1,2) _____

18. slope is $\frac{2}{3}$, through $(-3,4)$

19. parallel to $y = 3x - 2$, through $(2,-3)$

Write an equation of the line in slope-intercept form.

20. through $(1,2)$ and $(4,7)$

21. through $(-1,3)$ and $(2,4)$

22. through $(3,3)$ and $(-6,9)$

Write an inequality.

23. The graph is on graph paper

24. The graph is on graph paper

Graph on graph paper

25. $y < 4$

26. $x \geq 3$

27. $y \leq 3x - 4$

28. $y > 2x$

29. $y \geq 3x - 4$

30. $y < x - 2$

NAME _____

9.5-7 QUIZ

9-10

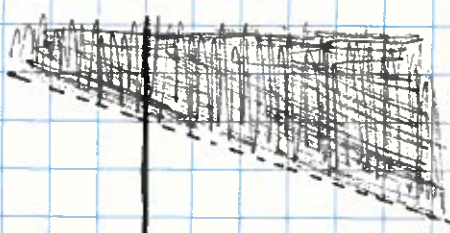
11-12

13-14

23

24

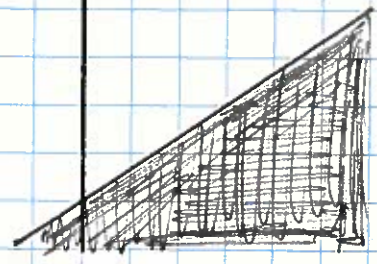
25-26



27-28

29

30



Name _____

Algebra 1, Chapter 9 Practice Test

1-9. Plot the points on graph paper.

A(-3,0) C(0,-4) E(-1,-2) G(1,3) I(1,0)
B(4,-5) D(-3,2) F(0,5) H(0,0)

Identify the intercepts

10. $4x - 3y = 24$ _____

11. $-2x + 3y = 24$ _____

Graph on graph paper.

12. $5x + 4y = 16$

13. $x + 2y = 7$

14. $y = -3x$

15. $2y = 3x$

16. $3y - 2x = 6$

17. $x = 2y - 4$

18. $y = -3x + 7$

19. $5x + 3y = 12$

20. $x = 3$

21. $y = -5$

22. $x = -4$

23. $y = 3$

Find the slope of a line through the points.

24. (1,4) and (4,9) _____

28. (5,0) and (-9,-6) _____

32. (9,6) and (9,1) _____

25. (2,-10) and (5,-1) _____

29. (6,5) and (8,-2) _____

33. (3,-2) and (4,-2) _____

26. (-3,12) and (-8, 5) _____

30. (-9,8) and (-1, 2) _____

27. (-4,1) and (-6,-7) _____

31. (-1,8) and (2,2) _____

On graph paper, through the given point, draw a line with the given slope.

34. (-1,-3) with slope $-3/5$

35. (1,4) with slope $2/3$

Find the slope and y-intercept.

36. $y = x - 2$

slope: _____

inter: _____

37. $y = -\frac{3}{4}x - 5$

slope: _____

inter: _____

38. $y = 6x$

slope: _____

inter: _____

39. $7x + 8y = 9$

slope: _____

inter: _____

Write an equation with the given slope and intercept.

40. slope 8, intercept 7

41. slope $-\frac{6}{5}$, intercept -4

42. slope 3, intercept 0

43. slope 0, intercept -2

Determine whether the lines are parallel. Show work.

44. $9x + 6y = 2$ and $3x + 2y = 7$

Write an equation of the line in standard form.

45. slope is 5, through (0,0)

46. slope is -4, through (2,3)

47. slope is $\frac{3}{5}$, through (-1,2)

48. parallel to $y = 2x - 3$, through (4,-5)

Write an equation of the line in slope-intercept form.

49. through (1,2) and (3,7)

50. through (-1,3) and (5,4)

51. through (3,3) and (-5,9)

Write an inequality.

52. The graph is on graph paper

53. The graph is on graph paper

Graph on graph paper

54. $y < -3$

55. $x \geq 4$

56. $y \leq \frac{3}{4}x - 5$

57. $y > 2x$

58. $y \geq \frac{2}{5}x + 1$

59. $y < x - 4$

60. $y > \frac{2}{3}x - 4$

52

53

54

55

56-7

58-9

60

Name _____

Algebra 1, Chapter 9 Test

1-9. Plot the points on graph paper.

A(5,0)	C(0,2)	E(3,4)	G(-4,-1)	I(-3,0)
B(-4,2)	D(1,-2)	F(0,-4)	H(0,0)	

Identify the intercepts

10. $-5x - 6y = 30$ _____

11. $4x - 7y = -28$ _____

Graph on graph paper.

12. $-2x + 4y = 16$

13. $x - 3y = -8$

14. $y = -2x$

15. $3y = 2x$

16. $3y - 2x = 9$

17. $x = 3y - 4$

18. $y = 2x - 5$

19. $2x + 3y = 9$

20. $y = 3$

21. $x = 5$

22. $y = -4$

23. $x = -3$

Find the slope of a line through the points.

24. (1,2) and (4,9) _____

28. (1,0) and (-9,-6) _____

32. (2,6) and (2,1) _____

25. (2,-10) and (5,-4) _____

29. (4,5) and (8,-2) _____

33. (3,-4) and (-4,-4) _____

26. (-3,12) and (-8, 4) _____

30. (-9,4) and (-1, 2) _____

27. (-4,1) and (-6,-9) _____

31. (-1,8) and (1,2) _____

On graph paper, through the given point, draw a line with the given slope.

34. (-2,-3) with slope $\frac{4}{5}$

35. (-3,4) with slope $-\frac{2}{5}$

Find the slope and y-intercept.

36. $y = x - 5$

slope: _____

inter: _____

37. $y = -\frac{4}{3}x - 2$

slope: _____

inter: _____

38. $y = 3x$

slope: _____

inter: _____

39. $4x + 5y = 6$

slope: _____

inter: _____

Write an equation with the given slope and intercept.

40. slope 5, intercept 4

41. slope $-\frac{3}{2}$, intercept -1

42. slope 2, intercept 0

43. slope 0, intercept -3

Determine whether the lines are parallel. Show work.

44. $4x + 5y = 6$ and $8x - 10y = 2$

Write an equation of the line in standard form.

45. slope is 7, through (0,0)

46. slope is -6, through (5,4)

47. slope is $\frac{4}{5}$, through (-6,7)

48. parallel to $y = 5x - 4$, through (3,-2)

Write an equation of the line in slope-intercept form.

49. through (1,2) and (3,9)

50. through (-1,3) and (5,8)

51. through (3,3) and (-3,7)

Write an inequality.

52. The graph is on graph paper

53. The graph is on graph paper

Graph on graph paper

54. $y < -2$

55. $x \geq 3$

56. $y \leq \frac{2}{3}x - 4$

57. $y > 3x$

58. $y \geq \frac{3}{4}x + 2$

59. $y < x - 3$

60. $y < \frac{1}{3}x - 2$

NAME _____

CHAPTER 9 TEST

1-9

12-13

14-16

17-19

20-23

34-35

Alg 1

12.4

Sol: 1-24



SIMPLIFYING RADICALS

FIND A PERFECT SQUARE THAT DIVIDES IN
ROOT THAT AND BRING IT OUT
LEAVE OTHER NUMBER IN

FOR EVEN POWERED VAR, CUT IN HALF
ODD LEAVE 1 UNDER

$$\begin{array}{l} \sqrt{18} \\ \sqrt{20} \\ \sqrt{32} \\ \sqrt{200} \\ \sqrt{480} \\ 2\sqrt{20} \\ 3\sqrt{24} \end{array}$$

$$\begin{array}{l} \sqrt{x^6} \\ \sqrt{x^8 y^{10}} \\ \sqrt{x^3} \\ \sqrt{y^7} \\ \sqrt{x^7 y^4} \\ \sqrt{18x^2 y^3} \\ \sqrt{12x^5 y^7} \\ \sqrt{72x^3} \end{array}$$

SOS: 8-31

Alg 1

12.5 ~~10/10/10/10~~

505 : 8-31

ADDING / SUBTRACTING: MUST HAVE LIKE RADICALS

$$5\sqrt{3}, 2\sqrt{3}$$

$$2\sqrt{x}, 2\sqrt{y}$$

$$2\sqrt{7}, 2\sqrt{5}$$

$$\sqrt{xy}, 2\sqrt{xy}$$

$$-3\sqrt{5}, 5\sqrt{5}$$

$$\sqrt{10} + 6\sqrt{10}$$

$$3\sqrt{5} + 4\sqrt{2} + 5\sqrt{2}$$

$$2\sqrt{3} - 5\sqrt{3} + 6\sqrt{2}$$

$$\sqrt{75} + 2\sqrt{27} - \sqrt{12}$$

$$\sqrt{12a} + \sqrt{300a}$$

$$\sqrt{12x^3} + 2\sqrt{27x^3}$$

510 : 1-18, 36

Go over Quiz

MULTIPLYING RADICALS

$$\sqrt{\quad} \cdot \sqrt{\quad} = \sqrt{\quad}$$

$$\sqrt{\quad} \cdot \# \quad \text{CAN'T HAPPEN}$$

$$\sqrt{4} \sqrt{9}$$

$$\sqrt{6} \sqrt{8}$$

$$2\sqrt{6} \quad 3\sqrt{2}$$

$$5\sqrt{8x} \cdot 4\sqrt{2x}$$

$$\sqrt{\frac{2}{3}} \cdot \sqrt{\frac{6}{2}}$$

~~$$\sqrt{\frac{2}{3}} \cdot \sqrt{\frac{6}{2}}$$~~

$$2\sqrt{4} \cdot 3\sqrt{4}$$

$$\sqrt{2}(5 + 3\sqrt{6})$$

$$\sqrt{5}(2\sqrt{5} + \sqrt{3})$$

$$(2 + 3\sqrt{7})(3 - 2\sqrt{7})$$

$$(4 + \sqrt{2})(5\sqrt{2} + 6)$$

$$(\sqrt{2} + \sqrt{3})(\sqrt{6} + \sqrt{7})$$

$$S14: 1-28, 38$$

$$\sqrt{\quad} \cdot \text{ITSELF } (\sqrt{\quad})^2$$

$$= \text{RADICAND}$$

$$\sqrt{7} \cdot \sqrt{7}$$

$$(\sqrt{5})^2$$

$$(4\sqrt{x})^2$$

Name _____

Chapter 1

Evaluate each expression if $a = -5$, $b = 6$, and $c = -7$.

1. $\frac{1}{3}(a + b + c)$

Write an expression for each phrase.

2. The quotient of 22 and some number m

3. A number y increased by x

Simplify.

4. $-(-24)$

5. $|-43|$

6. $24 - |-9|$

Add.

7. $-17 + (-27)$

8. $-\frac{1}{4} + \frac{1}{3}$

Subtract.

9. $-37 - 13$

10. $\frac{1}{4} - \frac{5}{8}$

Multiply.

11. $(-9)(-3)$

12. $\frac{3}{5} \cdot \left(-\frac{20}{9}\right)$

Divide.

13. $-8 \div -2$

14. $-\frac{6}{7} \div (-\frac{3}{21})$

Evaluate each expression if $a = -4$, $b = -5$, and $c = -6$.

15. $a - (b + c)$

Chapter 2

Simplify each expression. Show your work.

16. $6 + 6 \cdot 4 \div 10$

17. $25 - (9 + 5(2 + 10) \div 3)$

Simplify.

18. 2^2

19. $4(2 + 4)^2$

Simplify by combining like terms.

20. $7x + 4x$

21. $2(3m + n) + 3(2m - 2n)$

Simplify.

22. $-5(6x - 2)$

23. $(6x + 7) - (8x - 9)$

Evaluate each expression for $a = 3$, $b = -4$, and $c = -5$

24. $a + (b + c^3)^2$

Translate each word phrase to an algebraic expression. Let $x =$ the unknown number.

25. Twenty more than a number

26. The product of six and a number squared

Write an equation. Then solve the equation by checking the possible solutions.

27. JP weighs x pounds. His brother weighs 40 pounds less. The sum of their weights is 240 pounds. How much do JP and his brother weigh?

28. The sum of a number and 8 less than that number is 16. Find the number.

Write an algebraic equation for each sentence with $x =$ the unknown number.

29. Five more than a number is 10.

30. The product of 48 and a number, decreased by 7 is 5.

Chapter 3

Solve the equation. Show your work.

31. $x + 23 = 15$

32. $8x = 64$

33. $\frac{x}{9} = 4$

34. $\frac{1}{4}x = 8$

35. $4x + 9 = -15$

36. $x - 2.3 = 3.51$

37. $5(x-3) = -60$

38. $\frac{1}{3}x + \frac{3}{4} = \frac{5}{6}$

39. $-x = -4$

Identify a mathematical model for each problem. Then use the model to solve the problem.

40. Jayme bought a CD for \$15. Then she bought some posters for \$3 each. In all, she spent \$36. How many posters did she buy?

Solve each formula.

41. Solve the formula $A = \frac{1}{2}bh$ for h if $A = 10$ and $b = 4$.

Solve each problem by writing and solving an equation.

42. Increasing a number by 48 gives -19. What is the number?

43. If 8 is added to 9 times a number, the result is 89. What is the number?

Write an equation and solve it.

44. Fifteen increased by 9 times a number is 69. What is the number?

45. A coat is on sale for \$109. The sale price is \$19.99 less than the regular price.
What is the regular price?

Chapter 4

Solve each equation.

46. $x + 2x + 9 = 12$

47. $-2(x - 6) = -6$

48. $5(x + 5) = 6(x + 6)$

49. $5 - 6x = -4x - 9$

Solve each problem by writing and solving an equation.

50. Find five consecutive integers whose sum is 155.

51. Find five consecutive odd integers. The sum of the first and the third is 22.

Solve the percent problem.

52. What number is 40% of 60?

53. 3 is what percent of 50?

54. 70 is 20% of what number?

Solve the problem.

55. The enrollment at the school increased from 200 to 240.
What percent increase is that?

56. A \$1800 computer's price is reduced by 10%. What is the new price?

57. If the price of a \$499 television is increased by 10%, what is the new price?

Solve each literal equation for the underlined variable.

58. x + y = 7

59. 2 (x + y) = 3

Make a drawing and table, write an equation, and solve the equation.

60. Two trains start out 250 mi apart. They leave at the same time, one traveling at 30 mph and the other at 20 mph. How long will it take for them to meet?

Name _____

Chapter 5

Graph each equation or inequality.

1. $x = 2$

2. $x > 4$

3. $x \leq -2$

Solve each inequality.

4. $x + 6 < 10$

5. $-4x < 24$

6. $x / -2 < -5$

7. $16(x + 4) < 48$

8. $7x + 9 > 5x + 8$

9. $16(x + 3) + 8(x + 2) < 64$

Graph each compound inequality.

10. $8 < 5x - 2 < 18$

11. $10x - 23 \geq -8$ or $5x - 18 < -27$

Solve each absolute value equation or inequality.

12. $|4x + 6| = 18$

13. $|x + 5| > 5$

14. $|x - 4| < 3$

Write and solve an inequality.

15. An elevator can hold no more than 1700 pounds. What is the greatest number of 150 pound algebra students that the elevator can hold?

16. Angela's grades on four exams were 94, 93, 85, and 84. What is the lowest grade she can receive on the next exam to have an average greater than 90?

17. The length of a rectangle is 5 feet more than the width. Find the minimum dimensions if the perimeter is more than 51 feet and the length and width are integers.

Chapter 6

Multiply.

18. c^3c^4

19. $(5xy^6)(8x^5z^2)$

Divide.

20. $\frac{x^8}{x^2}$

21. $\frac{9x^2y^3z^4}{12x^7y^3z^6}$

Simplify.

22. $(x^6)^3$

23. $(4xy^5z^4)^2$

Write in scientific notation.

24. 67 000 000

25. .000 000 456

Simplify and write the answer in scientific notation.

26. $(3 \times 10^5)(2 \times 10^2)$

27. $\frac{18 \times 10^7}{30 \times 10^3}$

Simplify and write in descending order with respect to x.

28. $2(4x^3 - 6) - 3(-5x^3 + 3x^2 - 1) - 4$

Add.

29. $(-4a^2 + 5a - 6) + (9a^2 + 8a - 7)$

Subtract

30. $(5x + 6) - (7x - 8)$

Multiply.

31. $3x^4(4x^2 + 5x + 6)$

32. $(x + 5)(x + 4)$

33. $(4a + 3)(3a - 5)$

34. $(2x + 5)(2x - 5)$

35. $(x + 4)^2$

Chapter 7

Find the prime factorization.

36. 48

37. 111

Find the GCF

38. 48, 72

Factor completely.

39. $12x^3y^3 - 4x^2y$

40. $x^2 + 8x + 12$

41. $x^2 + x - 12$

42. $x^2 - 10x - 24$

43. $2x^2 - 3x - 5$

44. $x^2 - 49$

45. $x^2 - 10x + 25$

46. $ax + ay + bx + by$

Solve the equation.

47. $(x + 5)(x - 4) = 0$

48. $x^2 - 9x = 10$

Set up an equation and solve the word problem.

49. The area of a rectangle is 170. The length is seven more than the width. What are the dimensions?

50. The product of two consecutive integers is 420. What are the integers?

Chapter 8

State the restriction and simplify.

1. $\frac{5x^3}{20x^2}$ _____

2. $\frac{x^2 - 4}{x^2 - 7x + 10}$ _____

Multiply.

3. $\frac{6x^2}{y^2} \cdot \frac{y^2}{2x}$ _____

4. $\frac{x^2 - 16}{x} \cdot \frac{5x^3}{4 + x}$ _____

Divide.

5. $\frac{3x^2}{4y} \div \frac{18x}{12y^2}$ _____

6. $\frac{x^2 - 4}{x - 1} \div \frac{x + 2}{x^2 - 3x + 2}$ _____

Write equivalent expressions with the Least Common Denominator as the denominator.

7. $\frac{8}{x^2 - 3x - 10}, \frac{9}{5 - x}$

Add or subtract.

8. $\frac{5}{4x} + \frac{11}{4x}$

9. $\frac{5}{x+1} + \frac{6}{x+2}$

Simplify each mixed expression.

10. $6 + \frac{7}{x}$

Simplify each complex rational expression.

11. $\frac{\frac{3}{x} + \frac{3}{y}}{\frac{8}{x} + \frac{8}{y}}$

Divide the polynomials.

12. $(4x^4 - 6x^2 - 12x) \div 2x^2$

13. $(x^2 - 6x + 8) \div (x - 2)$

Express as a ratio in simplest form.

14. 40 to 12

Solve.

15. $\frac{7}{10} = \frac{21}{x}$

16. $\frac{x+1}{5} = \frac{15}{25}$

Solve.

17. $\frac{1}{x} + \frac{3}{x} = 24$

18. $\frac{2}{5x} + \frac{1}{2} = \frac{3}{10x}$

Chapter 9

Identify the term.

19. What is the name of the point where the axes connect?

20. What is the name of the vertical axis?

21. What is the name of the horizontal axis?

22. What is slope?

23. What is an x-intercept?

How would you move from the point where the axes connect to graph the point

24. $(-2, 3)$

Identify the intercepts.

25. $2x - 5y = 20$

Graph either using intercepts or using a table.

26. $4x + 5y = 20$

27. $y = \frac{2}{3}x + 1$

28. $x = -1$

What is the slope of a line through the points.

29. $(2,3)$ and $(3,5)$

Through the given point, draw a line with the given slope.

30. (2,4) with slope $\frac{2}{3}$

Find the slope and y-intercept.

31. $y = 6x - 5$

slope: _____

inter: _____

Write an equation with the given slope and intercept.

32. slope 2, intercept -1

Graph using slope-intercept form.

33. $y = -\frac{2}{3}x + 4$

Determine whether the lines are parallel. Show work.

34. $y = -3x + 2$ and $6x + 2y = 5$

Write an equation of the line in standard form.

35. slope is -3, through (1,2)

36. slope is $\frac{2}{5}$, through (-1,3)

Write an equation of the line in slope-intercept form.

37. through (1,4) and (2,7)

38. through (-1,3) and (3,-1)

Graph.

39. $x > -2$

40. $y < 3x - 1$

Chapter 12

Do the square root.

41. $\sqrt{25}$

42. $-\sqrt{100}$

43. $\pm\sqrt{\frac{1}{4}}$

Approximate the square root to the nearest tenth.

44. $\sqrt{6}$

45. $\sqrt{7}$

Write as a decimal.

46. $\frac{2}{5}$

47. $\frac{11}{16}$

Write as a fraction.

48. $.95$

49. $\overline{.72}$

Simplify the square root.

50. $\sqrt{12}$

51. $\sqrt{64}$

52. $\sqrt{x^7}$

53. $\sqrt{m^4 n^{10}}$

Add the square roots.

54. $4\sqrt{2} + 3\sqrt{2}$

55. $2\sqrt{12} - 4\sqrt{3}$

Multiply the square roots.

56. $\sqrt{2} \cdot \sqrt{8}$

57. $4\sqrt{3} \cdot 3\sqrt{6}$

58. $(4\sqrt{3})^2$

59. $\sqrt{2}(6 + \sqrt{2})$

60. $(3 + 4\sqrt{2})(3 - \sqrt{2})$
