

Review for End of Level Accelerated Test

Name _____ Period _____

Approximate the value of each radical.

1. $\sqrt{22}$

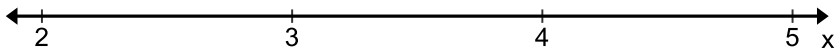
2. $\sqrt{90}$

3. $\sqrt{5}$

4. $\sqrt{54}$

5. Place the following values on the number line provided.

$\sqrt{12}, 4.5, 3.9, \pi$



Triangle ABC has vertices A(-2, -3), B(3, -7), C(-5, -6). Refer back to triangle ABC for each question.

6. What is A' when the figure is rotated 90° clockwise about the origin?

7. What is B' when the figure is translated according to the rule $(x, y) \rightarrow (x + 5, y - 4)$?

8. What is C' when the figure is reflected over the x-axis?

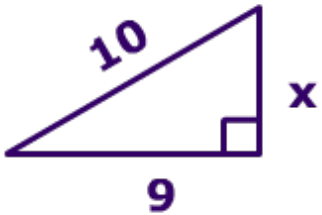
9. What is A' when the figure is reflected over the y-axis?

10. What is B' when the figure is rotated 270° clockwise about the origin?

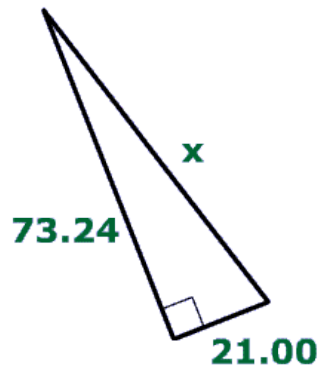
11) Simplify: $(4x^3y^5z)^2$

12) Simplify: $\frac{(3xy^3)^{-3}}{9x^5y^{-7}}$

13) What is the value of x ?

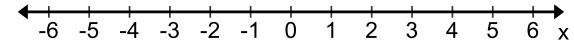


14) What is the value of x ?

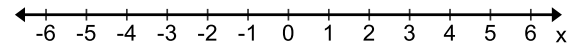


Solve and graph each inequality

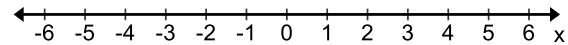
16. $x + 3 > 8$



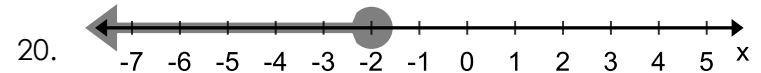
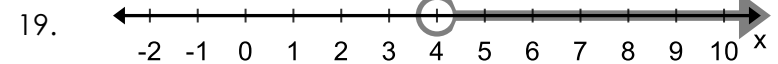
17. $-3x \leq 6$



18. $4x - 3 \geq 9$



Write the inequality that represents the graph



Convert the following into a simplified fraction.

21) $0.\bar{4}$

22) $2.\bar{24}$

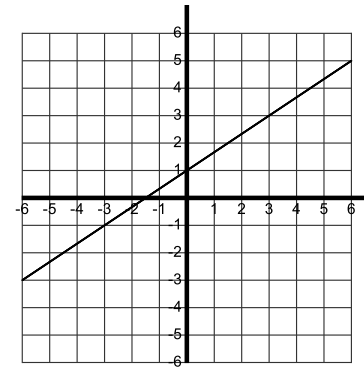
23) $3.\bar{72}$

24) $0.2\bar{4}$

25) $3.4\bar{5}$

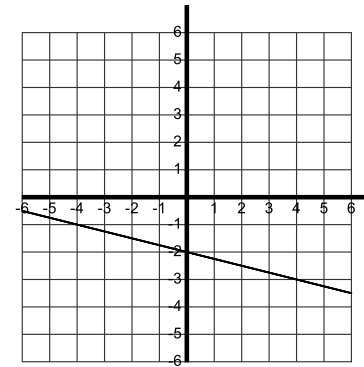
Find the slope from the following graphs.

26)



Slope _____

27)



Slope _____

Find the slope of the line that goes through the two points.

28) (6, 4) and (3, -2)

29) (2, 7) and (2, 6)

30) (-3, -5) and (2, -4)

Find the slope of each table.

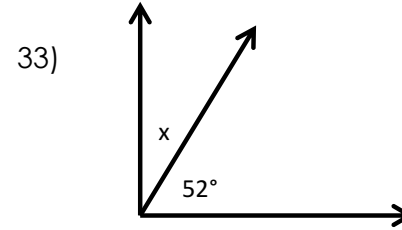
31)

x	y
2	5
5	3
8	1
11	-1

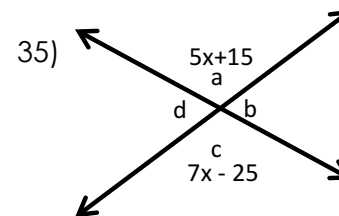
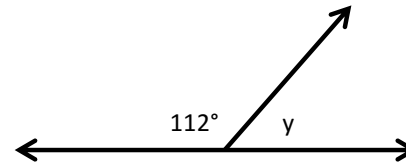
32)

x	y
-3	2
-4	4
-5	6
-6	8

Find the missing angles



34)

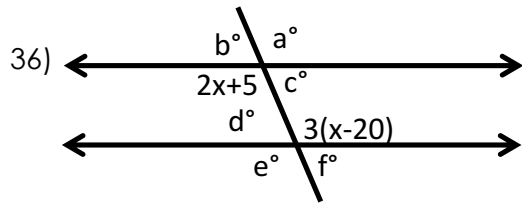


Angle a= _____

Angle b= _____

Angle c= _____

Angle d= _____



Angle a= _____ because

Angle b= _____ because

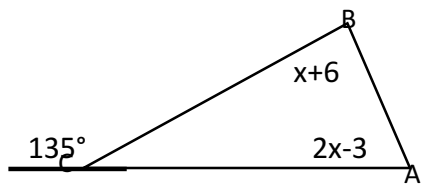
Angle c= _____ because

Angle d= _____ because

Angle e= _____ because

Angle f= _____ because

37) Solve for x and find the measure of the missing angles.



x = _____
 $\angle A =$ _____
 $\angle B =$ _____

Solve each of the following.

38) $\frac{3}{5}p + 3 = 4$

39) $8(3a + 6) = 9(2a - 4)$

40) $8y - 3 = 6y + 17$

41) $\frac{1}{2}(x + 2) = 3x - 6$

42) $8x - 20 = 4$

43) $\frac{1}{3}(x + 6) - 5 = -2$

44) $6(x - 3) + 10 = 2(3x - 4)$

45) $|4x + 5| = 15$

46) $3|2x + 7| - 11 = 10$

Write the equation of the line in slope-intercept form for each situation.

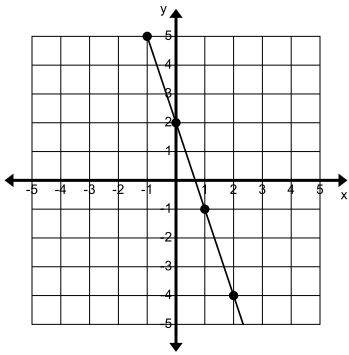
47) $m = \frac{2}{5}$ and $b = -4$

Equation:

48) $m = -1$ and passes through the point $(2, 3)$

Equation:

49)



Equation:

50) Passes through the points $(-1, -3)$ and $(3, 5)$

Equation:

51)

x	-3	0	3	6
y	-4	2	8	14

Equation:

52) $m = -\frac{3}{4}$ and passes through the point $(2, 5)$

Equation:

53) Passes through the points $(3, 6)$ and $(3, -9)$

Equation:

54)

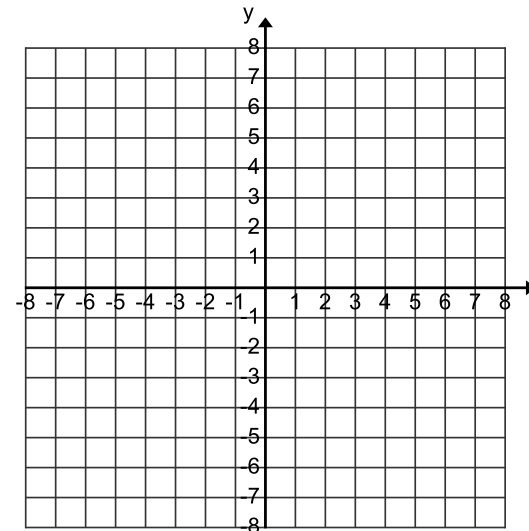
x	2	5	8	15
y	-5	-14	-23	-44

Equation:

Solve the following by graphing.

55) $\begin{cases} y = \frac{1}{2}x + 4 \\ y = -x - 2 \end{cases}$

Solution:



Solve each system of linear equations by the Elimination method.

$$56) \begin{cases} 4x + y = 1 \\ x - 2y = -4 \end{cases}$$

$$57) \begin{cases} y = 3x + 8 \\ 8x + 4y = 12 \end{cases}$$

$$58) \begin{cases} x - 2y = -19 \\ 5x + 2y = 1 \end{cases}$$

$$59) \begin{cases} 3x + 4y = 18 \\ -2x + 4y = 8 \end{cases}$$

Perform each operation.

$$60) (4 \times 10^5) - (3.4 \times 10^4)$$

$$61) (4.2 \times 10^{-3}) + (3.4 \times 10^{-4})$$

$$62) \frac{4.8 \times 10^4}{1.2 \times 10^{-2}}$$

$$63) (2.2 \times 10^3)(3.5 \times 10^{-6})$$

Convert to Scientific Notation:

$$64) 0.000061$$

Convert to Standard Notation

$$65) 4.67 \times 10^4$$