

Evaluate the expression when $x = 3$, $y = 5$, and $z = 6$.

13) $3x - y$

14) $(y + z)^2$

15) $\frac{2z - x}{3}$

Find the sum, difference, product, or quotient.

16) $\left(\frac{5}{7}\right) + \left(-\frac{6}{7}\right)$

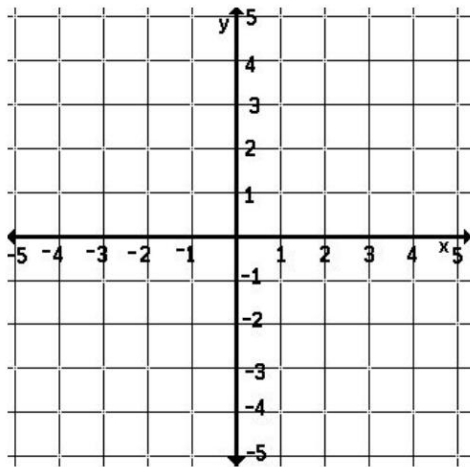
17) $-16 - (-35)$

18) $14(-6)$

19) $\frac{-36}{-4}$

20) $-8\frac{1}{3} \div (-4\frac{1}{6})$

Plot the point in the coordinate plane below. Give the location (Quadrant) of the point.



21) A $(-2, 3)$

22) B $(1, 3)$

23) C $(-4, -3)$

24) D $(3, -1)$

Solve the equation or inequality.

25) $-3p - 7 = 5$

26) $-8 = 8(4g + 3)$

27) $-\frac{3}{8}x + \frac{1}{4} \geq \frac{7}{12}$

Find the product or quotient. Write your answer using only positive exponents.

28) $u^4 \cdot u^9$

29) $\frac{t^{-6}}{t^3}$

Solve the proportion.

30) $\frac{7}{12} = \frac{x}{84}$

31) $\frac{9.2}{x} = \frac{2.3}{16}$

Find the greatest common factor AND least common multiple of the monomials.

32) $8t$, $24t$

33) $24r^3s^2$, $15r^2s^6$

34) What is the value of $3.2n$ when $n = 5$?

35) What is the value of 2^4 ?

36) What is the value of $3[1^2(5 - 3 + 1)^3 \div 9]$?

37) What expression represents the phrase “twice the quotient of 5 less than a number m and 6”?

38) A car travels an average speed of 45 miles per hour. How many hours would it take to travel 540 miles?

39) What is the solution of the equation $c + 6 = -12$?

40) What is the solution of the equation $8x - 4(5 - x) = -44$?

41) What is the value of r in the proportion $\frac{2}{5} = \frac{18}{r}$?

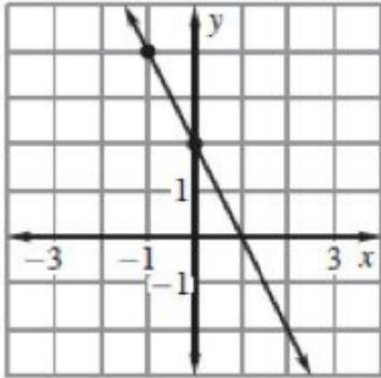
42) What is the x -intercept of the equation $3x - 2y = -12$?

43) What is the slope of the line that passes through the points $(5, -3)$ and $(-7, 5)$?

44) What is the slope of the line $y = x + 2$?

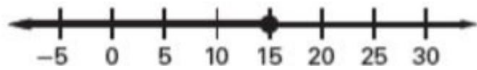
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45) The graph of which function is shown?

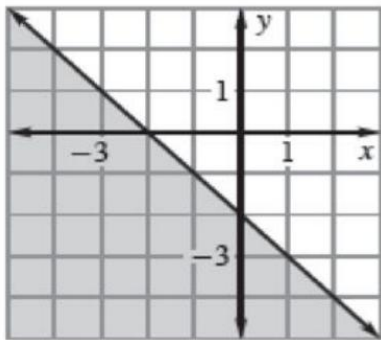


46) What is the equation of the line that passes through the points $(1, 8)$ and $(-2, -7)$?

47) Which inequality is represented by the graph?



48) The graph of which inequality is shown?



49) What is the sum of $6m^2 - 5m + 4$ and $7m^2 + 2m - 5$?

50) What is the product of $x + 5$ and $3x - 2$?

51) Write out the correct factorization of $x^2 - 15x + 56$.

52) Find the roots of the equation $(y - 3)(y + 2) = 0$

53) Write the correct factorization of $6x^2 - 2x - 20$.

54) What are the roots of the equation $x^2 + 30x = 1000$?

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