



13.1 – Algebraic Expressions

- Identify terms and like terms in an expression.
- Simplify an expression.

Identify the terms and like terms in the expression.

1) 10x + 5 + 3x + 1

2) -2n + 7n - r + 10r

13.1 – Algebraic Expressions

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- Simplify an expression.

Simplify the expressions

3)
$$8v - 15v$$
 4) $7d + 5 - 4d$

5) 12x + 9 - 3x - 4 6) 3(x - 4) + 5x

13.2 – Adding and Subtracting Linear Expressions

- Identify linear vs non-linear equations
- Add/subtract linear equations

Find the sum or difference

7)
$$(x-2)+(3x+6)$$

8)
$$(2n-4)-(4n-3)$$

13.2 – Adding and Subtracting Linear Expressions

- Identify linear vs non-linear equations
- Add/subtract linear equations

Find the sum or difference

9)
$$2(-3y-1)+(2y+7)$$

10)
$$(1-3k)-4(2+5k)$$

13.2 – Adding and Subtracting Linear Expressions

- Identify linear vs non-linear equations
- Add/subtract linear equations

Write an expression that represents the perimeter of the triangle.



Solve.

12)
$$\boldsymbol{b} - 6 = -14$$
 13) $5 = \boldsymbol{n} + 9$

14)
$$-6.4 = x + 4.3$$
 15) $k - \frac{1}{3} = \frac{5}{6}$

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Solve.

16)
$$-7n = 35$$
 17) $\frac{y}{-3} = 33$

18)
$$\frac{p}{-5} = -30$$
 19) $\frac{1}{5}d = -9$

Write the word sentence as an equation. Then solve.

20) 5 more than a number y is -2.

$$\mathbf{y} + \mathbf{5} = -2$$

21) -13 is 4 less than a number n.

$$-13 = n - 4$$

Write the word sentence as an equation. Then solve.

22) The quotient of a number *j* and -12 is 24.
$$\frac{\mathbf{j}}{-12} = 24$$

23) One fourth of a number k is -3.

$$\frac{1}{4}\boldsymbol{k} = -3$$

24) The perimeter of a triangle is 25 feet. What is the length of the unknown side?



<u>13.5 – Solving Two-Step Equations</u>

25) -4x - 3 = -11 26) 12 = 2d + 3.2

<u>13.5 – Solving Two-Step Equations</u>

27) -1+5h=14

28) $\frac{1}{2}b + \frac{9}{4} = \frac{7}{4}$

 $\frac{1}{2}\boldsymbol{b} = \frac{-1}{2}$



29)
$$24x - 18$$

30) 6*x* – 27



32) 14*x* - 42



33)
$$-8r + 32$$

34)
$$\frac{2}{5}x + \frac{4}{5}$$