3.1: Algebraic Expressions

Explain to a partner how an expression and an equation are different.

Give an algebraic and numerical example for each.

Write the phrase as an expression.

 1. 7 increased by a number 

 2. negative 14 minus

 3. negative 19 increased by 

 4. the product of 14 and

 5. 10 divided by the sum of a number  and 6

 6. 6 times the quotient of a number 

Definitions

**Like Terms: The same variable raised to the same exponent and constants are also considered like terms**

**EX .) 7n, 3n ; 3, 4 ; 6x2, -4x2**

**Simplest Form: Where you have no more like terms AND no parenthesis**

**Coefficient: The numerical part of a term that contains a variable**

**EX.) 2x +3x2 +4y – 5y**

**Constant: A number without a variable**

Identify the terms, like terms, constants, and coefficients

1. $x+10-\frac{3}{2}x$

T:

LT:

C:

Coeff:

1. $2n^{2}+7n-n^{2}-9$

T:

LT:

C:

Coeff:

1. Given the problem  your brother says the answer is . Explain to your brother why his answer is incorrect. Give the correct answer.

Simplify the expression.

 1.  2. 

 3.  4. 

 5.  6. 

Try:

1. 5x – (2x + 4 – x)
2. 5(x – 3) + 2
3. – (1 – x) + 3
4. 4 – 3 + 2(x – 1)