

ALGEBRAIC EXPRESSIONS

EXPRESSIONS

- An **expression** is different from an **equation**.
- An expression **HAS** _____ **equal sign**
- You _____ an expression

Examples

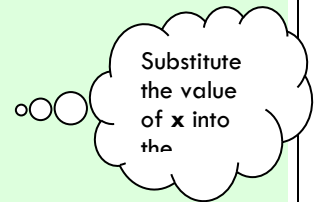
1. a number subtracted from five
2. five less than a number

- The expression is **evaluated** by **substituting** a GIVEN value for the variable

Examples

If $x = 2$ evaluate $5 - x$

2. If $x = 1$ evaluate $x - 5$



Examples

1. If $w = -7$, evaluate: [SUBSTITUTE, THEN EVALUATE]

a) $-3w$

b) w^2

c) $w^2 + 2w - 4$

2. If $x = 2$ and $y = 3$, evaluate:

a) $2x + y$

b) $3x^2 - 2x + y$

c) $y^2 - x^2$

3. If $x = 2$ and $y = -4$, evaluate:

a) $x^2 + y$

b) $(x + y)^3$

c) $x(y - 2)$

d) $-0.10x^2 - 3.12x + 10$

e) $y^2 - 8y + 10$

Ratios

A comparison of two quantities measured in the same units

Examples

Write the following ratios in simplest form

a) 10:5

b) 16:20

c) 24:72