

The Addition/Subtraction Principle of Equality

An equation in which each variable term is a monomial of degree 1 is called a _____.

Ex 1.

Is $y = x^2 - 3x + 2$ a linear equation?

Ex 2.

Is $3x + y = 1 + x$ a linear equation?

One good way to visualize an equation is as a balance. We can add or subtract the same quantity from both sides, and the equation will still be in balance.

When solving equations, _____ first (for example, distribute to clear parentheses, and combine like terms).



Ex 3.

Solve and check: $4(x - 2) - 3x = -10 + 3$

Ex 4.

Solve: $5(m + 3) + 9 = 4(m - 2) + 6$