

Algebra I

Notes Section 2.2

Solve One-Step Equations

Big Ideas

1. How to solve one-step equations using subtraction, addition, division and multiplication.
2. How to use inverse properties and reciprocals to solve equations.

EXAMPLE 1 Solve the equation.

a) $x + 7 = 4$ b) $x + 2 = -17$ c) $x - 12 = 3$ d) $x - 7 = -3$

EXAMPLE 2 Solve the equation.

a) $-6x = 48$ b) $-9x = -54$ c) $x/4 = 5$ d) $x/3 = -7$

EXAMPLE 3 Solve.

a) $-2/7x = 4$ b) $9 = -3/4m$ c) $-8 = -4/5v$

EXAMPLE 4

In the 2004 Olympics, Shawn Crawford won the 200m dash. His winning time was 19.79 seconds. Find his average speed to the nearest tenth of a meter/second.