

Solving Equations

Objectives:

- Solving equations
- Solving for a variable

Exercises:

1. Solve each equation.

a. $2x - 5 = 7$

b. $0.02 - 0.3x = 1.04$

c. $2.35 = \frac{x-3.5}{4}$

d. $\frac{3x-4}{7} = \frac{x+2}{2}$

e. $21.45 = x(1.4 - 3.2 + 1.7)^2$

f. $\frac{75+85+97+x}{4} = 90$

g. $\frac{1}{2}(0.7 + 1.7x) = -2.9$

h. $\frac{1.5 \cdot 4.24}{\sqrt{x}} = \frac{2}{3}$

2. Solve for the indicated variable.

a. $2x - 3y = 6$, for y

b. $z = \frac{x-\mu}{\sigma}$, for x

c. $E = \frac{z\sigma}{\sqrt{n}}$, for n

d. $F = \frac{9}{5}C + 32$, for C