

# Solving Linear Equations & Inequalities

1)

Solve algebraically the inequality

2)

$$11 - 2(1 + 3x) < 39$$

3

Solve the equation

$$\frac{2x}{3} - \frac{5}{6} = 2x.$$

Give your answer in its simplest form.

3

3)

Solve, algebraically, the inequality

$$19 + x > 15 + 3(x - 2).$$

3

4)

Solve the inequality

$$\frac{x}{4} - \frac{1}{2} < 5.$$

2

5)

Solve the equation

$$3x + 1 = \frac{x - 5}{2}.$$

3

6)

Solve the inequality

$$4x - 5 \leq 7x - 20.$$

3

7)

Solve **algebraically** the equation

$$2x - \frac{(3x - 1)}{4} = 4.$$

3

8)

Solve the equation

$$\frac{2}{x} + 1 = 6.$$

3