

Equations & Inequations

1. Solve the following equations:

a) $5x - 3 = 2x + 18$

b) $5x - 26 = 3x$

c) $9x - 1 = 4x + 34$

d) $x + 1 = 7x - 8$

2. Solve the following equations with brackets:-

a) $5(x - 1) = 0$

b) $10 + 2(x + 3) = 32$

c) $4x + 2 = 2(x + 7)$

d) $4(x + 1) = 2(x + 5)$

e) $6(x + 1) - 2x = x + 4$

f) $2(1 + 2x) = 2 - 3(x - 1)$

3. Solve the following equations with fractions:-

a) $\frac{1}{4}x + 7 = 10$

b) $\frac{2}{5}x = 3x - 26$

c) $\frac{x-5}{2} + \frac{x+3}{3} = 6$

4. Solve the following in-equations:-

a) $8x + 9 > 7x + 17$

b) $3(x - 1) + 2(x + 6) < 4(x - 7)$

c) $1 + \frac{5}{8}x \geq \frac{1}{4}x + 10$