



SOLVING EQUATIONS UNKNOWN ON BOTH SIDES

NO CALCULATOR

Ref: G241. **4E1**

A1 Solve $-2x + 7 = 4x - 2$	A2 Solve $8(x - 6) = -7(x + 3)$	A3 Solve $3(x + 4) = -4(x - 2)$	A4 Solve $7(x + 3) = 5(6 - x)$
B1 Solve $3(x + 5) - 7 = 2(x + 2)$	B2 Solve $6(x + 2) = 5 - 3(x - 5)$	B3 Solve $4(x + 7) + 3 = 4(8 - x)$	B4 Solve $5(6 - x) - 3 = 5 + 4(x + 3)$
C1 Solve $\frac{3x + 7}{9} = \frac{-9x - 5}{5}$	C2 Solve $\frac{-7x + 3}{5} = \frac{-7x + 4}{6}$	C3 Solve $\frac{3}{2x + 4} = \frac{4}{3x + 7}$	C4 Solve $\frac{2}{4x + 5} = \frac{3}{4x + 7}$
D1 Solve $\frac{5x - 4}{4x + 1} = 1$	D2 Solve $\frac{x + 2}{x - 7} = \frac{3}{4}$	D3 Solve $\frac{x + 7}{x + 5} = 1\frac{4}{5}$	D4 Solve $\frac{x - 1}{2} - \frac{5x - 3}{3} = 3$



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<p>A1</p> $4x - 2 = -2x + 7$ $6x - 2 = 7$ $6x = 9$ $x = 1.5$	<p>A2</p> $8x - 48 = -7x - 21$ $15x - 48 = -21$ $15x = 27$ $x = \frac{27}{15} = \frac{9}{5}$	<p>A3</p> $3x + 12 = -4x + 8$ $7x + 12 = 8$ $7x = -4$ $x = -\frac{4}{7}$	<p>A4</p> $7x + 21 = 30 - 5x$ $12x + 21 = 30$ $12x = 9$ $x = \frac{9}{12} = \frac{3}{4}$
<p>B1</p> $3x + 15 - 7 = 2x + 4$ $x + 8 = 4$ $x = -4$	<p>B2</p> $6x + 12 = 5 - 3x + 15$ $9x + 12 = 20$ $9x = 8$ $x = \frac{8}{9}$	<p>B3</p> $4x + 28 + 3 = 32 - 4x$ $8x + 31 = 32$ $8x = 1$ $x = \frac{1}{8}$	<p>B4</p> $30 - 5x - 3 = 5 + 4x + 12$ $-9x + 27 = 17$ $-9x = -10$ $x = \frac{-10}{-9} = \frac{10}{9}$
<p>C1</p> $15x + 35 = -81x - 45$ $96x + 35 = -45$ $96x = -80$ $x = \frac{-80}{96} = -\frac{5}{6}$	<p>C2</p> $-42x + 18 = -35x + 20$ $-7x + 18 = 20$ $-7x = 2$ $x = -\frac{2}{7}$	<p>C3</p> $9x + 21 = 8x + 16$ $x + 21 = 16$ $x = -5$	<p>C4</p> $8x + 14 = 12x + 15$ $-4x + 14 = 15$ $-4x = 1$ $x = \frac{1}{-4} = -\frac{1}{4}$
<p>D1</p> $5x - 4 = 4x + 1$ $x - 4 = 1$ $x = 5$	<p>D2</p> $4x + 8 = 3x - 21$ $x + 8 = -21$ $x = -29$	<p>D3</p> $5x + 35 = 9x + 45$ $-4x + 35 = 45$ $-4x = 10$ $x = \frac{10}{-4} = -\frac{5}{2}$	<p>D4</p> $3x - 3 - 10x + 6 = 18$ $-7x + 3 = 18$ $-7x = 15$ $x = \frac{15}{-7} = -\frac{15}{7}$