

8 A $6x - 9 = x + 1$

$5x - 9 = 1$

$5x = 10$

$x = 2$

$4x + 4 = 6x - 2$

$4 = 2x - 2$

$6 = 2x$

$3 = x$

$20 - 4x = x - 20$

$20 = 5x - 20$

$40 = 5x$

$8 = x$

$7x - 8 = x + 4$

$6x - 8 = 4$

$6x = 12$

$x = 2$

$25 - 3x = 2x$

$25 = 5x$

$5 = x$

$30 - 3x = x - 2$

$30 = 4x - 2$

$32 = 4x$

$8 = x$

$5x + 5 = 7x - 1$

$5 = 2x - 1$

$6 = 2x$

$3 = x$

$35 - 4x = 3x$

$35 = 7x$

$5 = x$

$7x - 8 = x + 1$

$6x - 8 = 1$

$6x = 9$

$x = 1,5$

B

$3 \cdot (x + 5) = 7 \cdot (x + 1)$

$3x + 15 = 7x + 7$

$15 = 4x + 7$

$8 = 4x$

$2 = x$

$30 - (x + 7) = (x + 7) + 10$

$30 - x - 7 = x + 7 + 10$

$23 - x = x + 17$

$23 = 2x + 17$

$6 = 2x$

$3 = x$

$7 \cdot (x + 1) - 6 \cdot (x + 3) + 3 = 0$

$7x + 7 - 6x - 18 + 3 = 0$

$x - 8 = 0$

$x = 8$

$6 \cdot (x + 3) = 10 \cdot (x + 1)$

$6x + 18 = 10x + 10$

$18 = 4x + 10$

$8 = 4x$

$2 = x$

$50 - 3 \cdot (x + 5) = 3x + 5$

$50 - 3x - 15 = 3x + 5$

$35 = 6x + 5$

$30 = 6x$

$5 = x$

$5 \cdot (x + 3) - 4 \cdot (x + 1) = 19$

$5x + 15 - 4x - 4 = 19$

$x + 11 = 19$

$x = 8$

$20 - (x + 6) = (x + 6) + 2$

$20 - x - 6 = x + 6 + 2$

$14 - x = x + 8$

$14 = 2x + 8$

$6 = 2x$

$3 = x$

$70 - 4 \cdot (x + 5) = 5x + 5$

$70 - 4x - 20 = 5x + 5$

$50 = 9x + 5$

$45 = 9x$

$5 = x$

$3 \cdot (x + 5) = 10 \cdot (x + 1)$

$3x + 15 = 10x + 10$

$15 = 7x + 10$

$5 = 7x$

$x = \frac{5}{7}$

C

$$x^2 + 10 = x \cdot (x + 2)$$

$$x^2 + 10 = x^2 + 2x$$

$$10 = 2x$$

$$5 = x$$

$$x \cdot (x + 9) = (x + 1) \cdot (x + 6)$$

$$x^2 + 9x = x^2 + 6x + x + 6$$

$$9x = 7x + 6$$

$$2x = 6$$

$$x = 3$$

$$(x + 3)^2 = (x + 1) \cdot (x + 6)$$

$$x^2 + 6x + 9 = x^2 + 7x + 6$$

$$6x + 9 = 7x + 6$$

$$9 = x + 6$$

$$3 = x$$

$$x^2 + 9 = x \cdot (x + 3)$$

$$x^2 + 9 = x^2 + 3x$$

$$9 = 3x$$

$$3 = x$$

$$(x + 3)^2 = (x + 1) \cdot (x + 7)$$

$$x^2 + 6x + 9 = x^2 + 8x + 7$$

$$6x + 9 = 8x + 7$$

$$9 = 2x + 7$$

$$2 = 2x$$

$$1 = x$$

$$(x + 2) \cdot (x + 9) = (x + 6) \cdot (x + 4)$$

$$x^2 + 9x + 2x + 18 = x^2 + 4x + 6x + 24$$

$$11x + 18 = 10x + 24$$

$$x + 18 = 24$$

$$x = 6$$

$$x \cdot (x + 5) = (x + 1) \cdot (x + 3)$$

$$x^2 + 5x = x^2 + 3x + x + 3$$

$$5x = 4x + 3$$

$$x = 3$$

$$(x + 1) \cdot (x + 12) = (x + 5) \cdot (x + 4)$$

$$x^2 + 12x + x + 12 = x^2 + 4x + 5x + 20$$

$$13x + 12 = 9x + 20$$

$$4x + 12 = 20$$

$$4x = 8$$

$$x = 2$$

$$(5x + 4) \cdot (x + 1) = 2x \cdot (3x + 5) - x^2$$

$$5x^2 + 5x + 4x + 4 = 6x^2 + 10x - x^2$$

$$9x + 4 = 10x$$

$$4 = x$$

D

$$\frac{1}{2}x + 5 = 9$$

$$x + 10 = 18$$

$$x = 8$$

$$\frac{1}{2}x + \frac{1}{2} = 9$$

$$x + 1 = 18$$

$$x = 17$$

$$\frac{1}{2}x + \frac{1}{4} = 1$$

$$2x + 1 = 4$$

$$2x = 3$$

$$x = 1,5$$

$$\frac{1}{4} \cdot (x + 8) = 5$$

$$x + 8 = 20$$

$$x = 12$$

$$\frac{1}{3}x + 5 = 9$$

$$x + 15 = 27$$

$$x = 12$$

$$\frac{1}{3}x + \frac{1}{3} = 9$$

$$x + 1 = 27$$

$$x = 26$$

$$\frac{1}{3}x + \frac{1}{4} = \frac{1}{2}$$

$$4x + 3 = 6$$

$$4x = 3$$

$$x = \frac{3}{4}$$

$$\frac{3}{4} \cdot (2x + \frac{2}{3}) = 2$$

$$3 \cdot (6x + 2) = 24$$

$$18x + 6 = 24$$

$$18x = 18$$

$$x = 1$$

$$\frac{2}{3}x + 5 = 9$$

$$2x + 15 = 27$$

$$2x = 12$$

$$x = 6$$

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

$$10x + 6 = 15$$

$$10x = 9$$

$$x = 0,9 = \frac{9}{10}$$

$$\frac{1}{2} \cdot (\frac{2}{3}x + \frac{1}{3}) = 3$$

$$2x + 1 = 18$$

$$2x = 17$$

$$x = 8,5$$