

$$4) (2x-7)/(x^2-9x+14) - 1/(x^2-3x+2) = -1/(1-x)$$

$$(2x-7)/(x^2-9x+14) - 1/(x^2-3x+2) + 1/(1-x) = 0$$

$$(2x-7)/(x-7)(x-2) - 1/(x-2)(x-1) + 1/(1-x) = 0$$

$$(2x-7)/(x-7)(x-2) + 1/(x-2)(1-x) + 1/(1-x) = 0$$

$$((2x-7)(1-x) + (x-7) + (x-2)(x-7))/(x-7)(x-2)(1-x) = 0$$

$$(2x-7-2x^2+7x+x-7+x^2-2x-7x+14)/(x-7)(x-2)(1-x) = 0$$

$$(2x-7-2x^2+7x+x-7+x^2-2x-7x+14)/(x-7)(x-2)(1-x) = 0$$

$$-x^2+x=0 \quad (x-7)(x-2)(1-x)$$

$$x(-x+1)=0 \quad x \neq 7 \quad x \neq 2 \quad x \neq 1$$

$$x=0$$

$$x=1$$

Ответ: 0



$$4.5) (2x+7)/(x^2+5x-6) + 3/(x^2+9x+18) = 1/(x+3)$$

$$(2x+7)/(x-1)(x+6) + 3/(x+6)(x+3) = 1/(x+3)$$

$$(2x+7)(x+3)/(x+3)(x-1)(x+6) + 3(x-1)/(x+6)(x-1)(x+3) - 1(x-1)(x+6)/(x+3)(x-1)(x+6) = 0$$

$$[2x^2+7x+6x+21+3x-3-x^2+x-6x+6]/(x+3)(x-1)(x+6) = 0$$

$$[x^2+11x+24]/(x+3)(x-1)(x+6) = 0$$

$$x^2+11x+24=0 \quad (x+3)(x-1)(x+6) \neq 0$$

$$x_1 = -3$$

$$x_2 = -8$$

Отв: -8