

$$9) \frac{(x^2-10x+15)}{(x^2-6x+15)} = \frac{3x}{(x^2-8x+15)}$$

$$\frac{(x-10+15/x)}{(x-6+15/x)} - \frac{3}{(x-8+15/x)} = 0$$

$$y = x + 15/x$$

$$\frac{(y-10)}{(y-6)} - \frac{3}{(y-8)} = 0$$

$$\frac{[(y-10)(y-8) - 3(y-6)]}{(y-6)(y-8)} = 0$$

$$\frac{[y^2 - 8y - 10y + 80 - 3y + 18]}{(y-6)(y-8)} = 0$$

$$\frac{[y^2 - 21y + 98]}{(y-6)(y-8)} = 0$$

$$y^2 - 21y + 98 = 0$$

$$y_1 = 14$$

$$y_2 = 7$$

$$x^2 + 15 - 14x = 0$$

$$D = 196 - 60 = 136$$

$$x_1 = 7 + \sqrt{34}$$

$$x_2 = 7 - \sqrt{34}$$

$$x^2 - 7x + 15 = 0$$

$$D = 49 - 60 =$$

корней нет

$$\text{отв: } x_1 = 7 + \sqrt{34}$$

$$x_2 = 7 - \sqrt{34}$$

