

$$\frac{x+5}{x^2-5x} - \frac{x+5}{2x^2+10x} = \frac{x+25}{2x^2-50}$$

$$\frac{x+5}{x^2-5x} - \frac{x+5}{2x^2+10x} - \frac{x+25}{2x^2-50} = 0$$

$$\frac{x+5}{x^2-5x} - \frac{x+5}{2x^2+10x}$$

$$\frac{x+5}{x(x-5)} - \frac{x+5}{2x(x+5)} - \frac{x+25}{2(x^2-25)} = 0$$

$$\frac{x+5}{x(x-5)} - \frac{x+5}{2x(x+5)} - \frac{x+25}{2(x-5)(x+5)} = 0$$

$$\frac{2(x+5)(x+5) - (x-5)(x-5) - (x+25)x}{2x(x-5)(x+5)} = 0$$

$$\frac{2(x+5)^2 - (x-5)^2 - x^2 - 25x}{2x(x-5)(x+5)} = 0$$

$$\frac{2(x^2+10x+25) - (x^2-10x+25) - x^2 - 25x}{2x(x-5)(x+5)} = 0$$

$$\frac{2x^2+20x+50 - x^2+10x-25 - x^2-25x}{2x(x-5)(x+5)} = 0$$

$$\frac{5x+25}{2x(x-5)(x+5)} = 0$$

$$\frac{5(x+5)}{2x(x-5)(x+5)} = 0$$

$$\frac{5}{2x(x-5)} = 0$$

$$2x(x-5) \neq 0$$

$$x \neq 0 \quad x \neq 5$$

Ответом нет решений.