

$$2\sqrt{49}-4\sqrt{81}=2\cdot 7-4\cdot 9=-22$$

$$\frac{4}{1-9y^2}+\frac{3}{3y^2+y}=\frac{4}{9y^2+6y+1}$$

Отметим ОДЗ.

$$\begin{cases} 1-9y^2 \neq 0 & (1) \\ 3y^2+y \neq 0 & (2) \\ 9y^2+6y+1 \neq 0 & (3) \end{cases}$$

$$\frac{4}{1-9y^2}+\frac{3}{3y^2+y}-\frac{4}{9y^2+6y+1}=0$$

$$-\frac{4}{9y^2-1}+\frac{3}{3y^2+y}-\frac{4}{9y^2+6y+1}=0$$

$$-\frac{4}{(3y-1)(3y+1)}+\frac{3}{y(3y+1)}-\frac{4}{9y^2+6y+1}=0$$

$$-\frac{4}{(3y-1)(3y+1)}+\frac{3}{y(3y+1)}-\frac{4}{(3y+1)(3y+1)}=0$$

$$-\frac{4}{(3y-1)(3y+1)}+\frac{3}{y(3y+1)}-\frac{4}{(3y+1)^2}=0$$

$$-\frac{4(3y+1)y}{(3y-1)(3y+1)^2y}+\frac{3(3y-1)(3y+1)}{y(3y+1)^2(3y-1)}-\frac{4(3y-1)y}{(3y+1)^2(3y-1)y}=0$$

$$\frac{-4(3y+1)y+3(3y-1)(3y+1)-4(3y-1)y}{(3y-1)(3y+1)^2y}=0$$

$$\frac{-(4y)(3y+1)+3(3y-1)(3y+1)-(4y)(3y-1)}{(3y-1)(3y+1)^2y}=0$$

$$\frac{-(12y^2+4y)+(9y-3)(3y+1)-(12y^2-4y)}{(3y-1)(3y+1)^2y}=0$$

$$\frac{-(12y^2+4y)+(27y^2+9y-9y-3)-(12y^2-4y)}{(3y-1)(3y+1)^2y}=0$$

$$\frac{-(12y^2+4y)+(27y^2-3)-(12y^2-4y)}{(3y-1)(3y+1)^2y}=0$$

$$\frac{-12y^2-4y+27y^2-3-12y^2+4y}{(3y-1)(3y+1)^2y}=0$$

$$\frac{3y^2-3}{(3y-1)(3y+1)^2y}=0$$

$$\frac{3(y^2-1)}{(3y-1)(3y+1)^2y}=0$$

$$y^2-1=0$$

$$y^2=1$$

Ответ : $y=-1; y=1$.

$$6m(p-3)+5n(p-3)=(p-3)(6m+5n)$$