

Сдвиг оси

$$(6x+5)^2(3x+2)(x+1) = 35$$

$$(6x+5)^2(3x+2)(x+1)*12 = 35*12$$

$$(6x+5)^2(3x+2)^2(x+1)6 = 35*12$$

$$(6x+5)^2(6x+4)*(6x+6) = 35*12$$

$$6x+5=t$$

$$t^2(t-1)(t+1)=35*12$$

$$t^2*(t^2-1)=35*12$$

$$t^4-t^2=35*12$$

$$t^2=y$$

$$y^2-y-35*12=0$$

$$D=1-4*(-420)=1+1680=1681$$

$$\sqrt{1681}=41$$

$$y_1=1-41/2=-20$$

$$y_2=21$$

$$t^2=-20$$

решений нет

$$t^2=21$$

$$t=\pm\sqrt{21}$$

$$6x+5=\pm\sqrt{21}$$

$$6x=\pm\sqrt{21}-5$$

|/6

$$x=(\pm\sqrt{21}-5)/6$$

Ответ: $(\pm\sqrt{21}-5)/6$

