

$$60(x+2)-60(x-2)=45(x-2)(x+2)$$

$$60(x+2)-60(x-2)-45(x-2)(x+2)=0$$

$$(60x+120)-(60x-120)-(45x-90)(x+2)=0$$

$$(60x+120)-(60x-120)-(45x^2+90x-90x-180)=0$$

$$(60x+120)-(60x-120)-(45x^2-180)=0$$

$$60x+120-60x+120-45x^2+180=0$$

$$420-45x^2=0$$

$$-45x^2+420=0$$

$$-45x^2=-420$$

$$45x^2=420$$

$$x^2=420:45$$

$$x^2=\frac{28}{3}$$

$$\text{ответ: } x=-\frac{2\sqrt{21}}{3}, x=\frac{2\sqrt{21}}{3}.$$