

$$\frac{1}{27} \cdot \frac{1}{8} \cdot \frac{1}{6} = \frac{1}{216} = 0,00463 \dots$$

$$27 \cdot 8 - 2,34 = 216 - 2,34 = 213,66 \in (213, 214)$$

$$g = x^2$$

$$\frac{1 \cdot 2\sqrt{3} + 3\sqrt{2}}{1 \cdot \sqrt{2} - \sqrt{3}} =$$

$$\frac{2\sqrt{3} + 3\sqrt{2}}{\sqrt{3} - \sqrt{2}} \cdot \frac{(\sqrt{3} + \sqrt{2})}{(\sqrt{3} + \sqrt{2})} = \frac{6 + 2\sqrt{6} + 3\sqrt{6} + 6}{3 - 2} = 12 + 5\sqrt{6}$$

$$\sqrt{150} = 5\sqrt{6}$$

$$\text{Ответ: } 12 + 5\sqrt{6} - 5\sqrt{6} = 12$$

$$(x^2 + 2x)^2 - 5(x^2 + 2x) + 4 = 0$$

$$\text{Пусть } t = x^2 + 2x \Rightarrow t^2 - 5t + 4 = 0.$$

$$\text{по Виетар: } t_1 = 4 \quad t_2 = 1$$

$$x^2 + 2x = 4$$

$$x^2 + 2x - 4 = 0$$

$$D = 4 + 16 = 20 = (2\sqrt{5})^2$$

↙ корней не будет

$$x^2 + 2x = 1$$

$$x^2 + 2x + 1 = 0$$

$$D = 4 + 4 = 8 = (2\sqrt{2})^2$$

↘ корней не будет