

$$\frac{1}{3}(x - \frac{17}{3})^2 + \frac{2}{3}(x - \frac{17}{3}) + \frac{17}{3} \quad \text{است} \quad \frac{17}{3} \leftarrow \text{است} \quad \frac{3}{2} \leftarrow \frac{-\frac{2}{3}}{-\frac{1}{3}}$$

$$\hookrightarrow -\frac{b}{2a} = \Rightarrow \frac{17}{3} = \frac{17}{3}$$

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$$1 - 2f(\frac{3x+2}{3}) \rightarrow \frac{3x+2}{3} = 1 \Rightarrow x = -\frac{1}{3} \Rightarrow 1 - 2f(1) = \frac{9}{\beta} \Rightarrow$$

$$a \times \beta = -\frac{3}{3}$$

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$$3 - \sqrt{2x} = \frac{x+1}{2} \Rightarrow \frac{4x-1}{2} = \frac{4+5}{2} \Rightarrow -3 + \sqrt{2x+2} + 5 = 0 \Rightarrow \sqrt{2x+2} + 2 = 1f(x \pm \frac{1}{2}) \Rightarrow$$

$$\frac{3}{2} = \sqrt{2x+2} \Rightarrow \frac{9}{4} = 2x+2 \Rightarrow \frac{1}{4} = 2x \Rightarrow x = \frac{1}{8}$$

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$$y = f(x-1) + g(x+1)$$

$$x \Rightarrow [a+1, b] \quad \cap \quad [-2, b-1] \leftarrow 2x$$

$$\hookrightarrow a = -3 \quad b = 4$$

$$a-b = -3-4 = -7$$

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$$f(\frac{2x}{3}+1) \Rightarrow \frac{2x}{3}+1 \Rightarrow \frac{2x}{3} \Rightarrow \frac{4-12}{3} \Rightarrow \frac{12}{3} \Rightarrow$$

$$[-3, 5] \Rightarrow [-2, 6] \Rightarrow [-1, 7] \quad x_{\text{پایین}} \leftarrow 2x$$

$$[2, -2] \Rightarrow [-1, -5] \Rightarrow [1, 5] \leftarrow 2x$$

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