

$$\frac{-1}{x^2+2x+b} = -\infty \xrightarrow[\text{طفرات}]{\text{منح}} \frac{-1}{(x-2)^2} = \frac{-1}{x^2-4x+4} \rightarrow \underbrace{a=-4, b=4}_{a+b=0}$$

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$$\frac{\sqrt[3]{x}}{2\sqrt[3]{x}+a\sqrt[3]{x}+b} = +\infty \xrightarrow[\text{طفرات}]{\text{منح}} \frac{\sqrt[3]{x}}{(x-\sqrt[3]{x})^2} = \frac{\sqrt[3]{x}}{x^2-2x\sqrt[3]{x}+2\sqrt[3]{x}}$$

$$\left[\frac{b}{a} \right] = \left[\frac{\sqrt[3]{x}}{-\sqrt[3]{x}} \right] = \boxed{-1}$$

$$\left\{ \begin{array}{l} b = 2\sqrt[3]{x} \\ a = -2\sqrt[3]{x} \end{array} \right.$$

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$$\left. \begin{array}{l} \text{منح بالا} \\ \text{صفر باشد} \end{array} \right\} \rightarrow \left| \frac{\sqrt{x}}{\sqrt{x}} + a \right| + a = 0 \rightarrow \frac{1}{x} + 2a = 0 \rightarrow \boxed{a = -\frac{1}{6}}$$

$$\left[-\frac{1}{6} \right] = \boxed{-1}$$

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$$\frac{-1 - (-9)}{\cancel{x^2} - 1x + 1x} = \frac{1}{0^+} = +\infty$$

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$$\frac{x^2-4}{x^2-1} \rightarrow \frac{(x-2)(x+2)}{(x-1)(x^2+2x+4)} = \frac{4}{12} = \boxed{\frac{1}{3}}$$

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$$HOP \rightarrow \frac{x+10}{\sqrt{x^2}} \xrightarrow{x=-1} \frac{-5}{\sqrt{1}} = \boxed{-12}$$

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$$HOP \xrightarrow{\text{مقدار}} \frac{\frac{3}{\sqrt{1+2x}} - \frac{-1}{\sqrt{1-x}}}{\frac{-x}{\sqrt{4}}} \rightarrow \frac{\frac{3}{\sqrt{1+2x}} - \frac{-1}{\sqrt{1-x}}}{\frac{-1}{\sqrt{2}}} \xrightarrow{x=0} \frac{\frac{3}{\sqrt{1}} - \frac{-1}{\sqrt{1}}}{\frac{-1}{\sqrt{2}}} = \boxed{-2}$$

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$$1 \rightarrow \text{منج} \rightarrow \text{مقدار} \rightarrow k+1=0 \rightarrow \boxed{k=-1}$$

$$2 \rightarrow \frac{-1 + (1 - \frac{ax^2}{2})}{-x^2} = 2 \rightarrow \boxed{a=5} \rightarrow \boxed{\frac{a}{k} = -5}$$

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$$1 \rightarrow \frac{x\sqrt{x-5a}}{(\sqrt{x-5a})(\sqrt{x+5a})} = \frac{x}{\sqrt{x+5a}} \xrightarrow{x=5a} \boxed{\frac{5a}{\sqrt{10a}}}$$

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$$2 \rightarrow \frac{x(\sqrt{x}-\sqrt{5a})}{(\sqrt{x-5a})(\sqrt{x+5a})} \times \frac{\sqrt{x}+\sqrt{5a}}{\sqrt{x}+\sqrt{5a}} = \frac{x\sqrt{x-5a}}{(\sqrt{x+5a})(\sqrt{x}+\sqrt{5a})} = 0$$

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$$x \rightarrow -1^+ \rightarrow \frac{1+k}{0^-} = -\infty \rightarrow 1+k > 0 \rightarrow k > -1$$

$$x \rightarrow -1^- \rightarrow \frac{1+2k}{0^+} = -\infty \rightarrow k < -\frac{1}{2}$$

$$-1 < k < -\frac{1}{2} \rightarrow (k\pi, \cos k\pi) = (\frac{1}{2}\pi, 0)$$

مقدار

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