

$\rightarrow a = 2$ رابطه اول $\rightarrow$ رابطه دوم $\rightarrow$ رابطه سوم
رضاء

$$x^2 + ax + b = (x-2)^2 = x^2 - 4x + 4 \rightarrow a + b = 0$$

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$x = \sqrt[3]{x}$ رابطه اول $\rightarrow$ رابطه دوم $\rightarrow$ رابطه سوم
رضاء

$$x^2 + ax + b \rightarrow (x - \sqrt[3]{x})^2 = x^2 - \sqrt[3]{x} x + \sqrt[3]{x} x \rightarrow \begin{cases} a = -\sqrt[3]{x} \\ b = \sqrt[3]{x} \end{cases}$$

$$[P_a] = \begin{bmatrix} \sqrt[3]{x} & \frac{1}{x} \end{bmatrix} = -1$$

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$$\lim_{x \rightarrow -\frac{1}{r}} \frac{14x - [\frac{-r}{xr}]}{x^2x + \frac{r}{xr}} = \lim_{x \rightarrow -\frac{1}{r}} \frac{14x - [-1]}{x^2x + [-1r]}$$

$$= \lim_{x \rightarrow -\frac{1}{r}} \frac{14x + 1}{x^2x - 1r} = \frac{-1 + 1}{-1r - 1r} = -\frac{1}{2r} = -\frac{1}{2}$$

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$$\lim_{x \rightarrow \frac{1}{\sqrt{r}}} \frac{[-x] + a}{|\sqrt{\frac{r}{x}} x + a| + a} = \lim_{x \rightarrow \frac{1}{\sqrt{r}}} \frac{a - 1}{|a + \frac{1}{\sqrt{r}}| + a} = -\infty \rightarrow |a + \frac{1}{\sqrt{r}}| = -a$$

$$\rightarrow \begin{cases} a + \frac{1}{\sqrt{r}} = -a \\ a + \frac{1}{\sqrt{r}} = -a \end{cases} \rightarrow a = -\frac{1}{2\sqrt{r}} \rightarrow a = -\frac{1}{4}$$

$$\lim_{x \rightarrow \frac{1}{\sqrt{r}}} \frac{-1/4 - 1}{0 +} + \sqrt{r} \rightarrow [a] = -1$$

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$$\lim_{x \rightarrow 1} \frac{x^2 - r}{x^2 - [1+]} = \lim_{x \rightarrow 1} \frac{x^2 - 2}{x^2 - 1} = \lim_{x \rightarrow 1} \frac{(x-1)(x+1)}{(x-1)(x^2 + x + 1)} = \frac{r}{1+r}$$

$$= \frac{1}{r}$$

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$$\lim_{x \rightarrow -1} \frac{x^r + 10x + 14}{1x + 4x^{1/r}} \xrightarrow{\text{hop}} \lim_{x \rightarrow -1} \frac{r x + 10}{9x + 4x^{-1/r}} = \frac{-14 + 10}{r x \sqrt[r]{\frac{-1}{4}}} = \frac{-4}{-\frac{1}{r}} = +11$$

→ $\lim_{x \rightarrow \infty}$
محدود نیست

$$k+1=0 \Rightarrow k=-1 \rightarrow \lim_{x \rightarrow \infty} \frac{\cos(\sqrt{x}) - 1}{-x^r}$$

$$\div \rightarrow \frac{-\frac{a x^r}{r}}{-x^r} = \frac{a}{r} = r \Rightarrow a = 4$$

$$\div \rightarrow \frac{\frac{1}{\sqrt{x-r}} + \frac{r}{r\sqrt{x}}}{\frac{\sqrt{x^r - 9ar}}{\sqrt{x} - \sqrt{x+ra}}} = \lim_{x \rightarrow ra^+} \frac{\frac{r\sqrt{x} + r\sqrt{x-ra}}{r\sqrt{x}\sqrt{x-ra}}}{\frac{\sqrt{x} - \sqrt{x+ra}}{\sqrt{x} - \sqrt{x+ra}}} = \frac{\frac{r\sqrt{ra}}{r\sqrt{ra}}}{\frac{ra}{\sqrt{4a}}} = \frac{\sqrt{4a}}{ra}$$

$$\sqrt{\frac{4a}{9ar}} = \sqrt{\frac{r}{ra}}$$

$$\lim_{x \rightarrow -1^+} \frac{1+k}{x^r - 1} = \lim_{x \rightarrow -1} \frac{1+k}{(x+1)(x-1)} = \frac{1+k}{0^-} = -\infty \rightarrow 1+k > 0 \Rightarrow k > -1$$

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

$$\left(\frac{k-\pi}{n}, \frac{\cos k\pi}{y} \right) \rightarrow \begin{cases} x < 0 \\ y < 0 \end{cases} \quad \text{پس } i$$