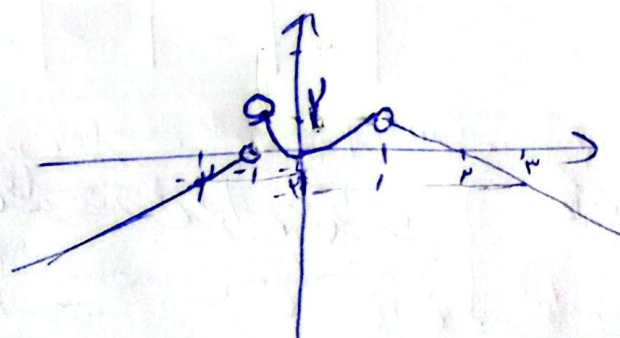
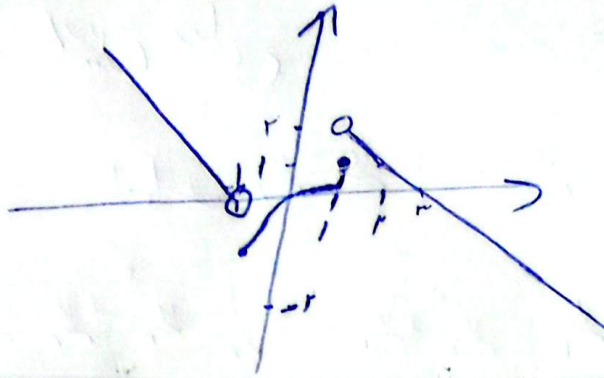


تابع است $y_1 = y_2 \rightarrow y_1^3 = y_2^3 \xrightarrow{a_1 = a_2} y_1^3 = y_2^3 - 1 = y_2^3 - 1$ (الف) ب) $y_1^3 + y_2^3 = y_1^3 - 1 \xrightarrow{a_1 = a_2} y_1^3 + y_2^3 = y_1^3 + y_2^3 \Rightarrow y_1^3 - y_2^3 + y_2^3 - y_2^3 = 0$ تابع است $(y_1 - y_2)(y_1^2 + y_1 y_2 + y_2^2) + y_1 - y_2 = 0$ $(y_1 - y_2)(y_1^2 + y_2^2 + y_1 y_2 + 1) = 0$ $\Delta CO \rightarrow y_1 = y_2$	ج) $y_1^3 + y_2^3 = y_1^3 - 1 \xrightarrow{a_1 = a_2} y_1^3 = -y_2^3 + y_2^3 - 1$ $y_1^3 = -y_2^3 + y_2^3 - 1$ ب) $y_1^3 + y_2^3 = y_1^3 - 1 \xrightarrow{a_1 = a_2} y_1^3 = -y_2^3 + y_2^3 - 1$ تابع است $y_1 = y_2$ د) $\sqrt{y_1} + \sqrt{y_2} = 2 \rightarrow \sqrt{y_1} = 2 - \sqrt{y_2}$ $\sqrt{y_1} = 2 - \sqrt{y_2} \rightarrow y_1 = (2 - \sqrt{y_2})^2$ ب) $y_1 = 1 \rightarrow y_2 = 1$	ج) $\tan 135^\circ = \frac{\sin}{\cos} = \frac{-1}{\sqrt{2}}$ د) $\cot 135^\circ = \frac{\cos}{\sin} = \frac{1}{-1}$ ب) $\cot \frac{\sqrt{\pi}}{2}, \frac{\cos}{\sin} = \frac{-\sqrt{3}}{1}$ د) $\cot 135^\circ = \frac{\cos}{\sin} = \frac{1}{-1}$	الف) $\sin \alpha = \frac{1}{r} \rightarrow \alpha = \frac{\pi}{6}, \frac{5\pi}{6}$ ب) $\cos \alpha = \frac{\sqrt{2}}{r} \rightarrow \alpha = \frac{\pi}{4}, \frac{7\pi}{4}$	
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الف) $y = \frac{(n-r)(n-r)(n-r)}{r}$ | - | + | - | +

ب) $y = \frac{(n-r)(n-r)^2(n-r)}{r}$ | + | - | - | +

الف) $y = \frac{(n-r)(n-r)}{n-r}$ | - | + | - | +

ب) $y = \frac{(n-r)(n-r)}{(n-r)^2}$ | + | - | - | +

الف) $y = \frac{n^3 - 3n + 2}{n-r} \rightarrow (n-1)(n-r)(n-1)$ | + | - | - | +

ب) $y = \frac{n^3 - 3n + 2}{n^2 - 4n + 3} \rightarrow (n-r)(n-1)$ | + | + | + | +

الف) $y = \frac{n^4 - n^2}{n^2 + n + 2} \rightarrow n^2(n^2-1) \rightarrow n^2(n-1)(n+1)$ | + | - | - | +

ب) $y = \frac{n^4 + 3n + 2}{(n^2 + 2n + 2)}$ | + | - | - | +

این عبارت علامت دارد (+) است
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