

نام و نام خانوادگی شماره کلاس **تکلیف شماره ۱۷، ۱۷۵**

الف) $y_1 = 2x_1^3 - 1$ و $y_2 = 2x_2^3 - 1 \Rightarrow y_1 = y_2 \Rightarrow y = y$ ✓

ب) $y_1 + y_2 = 3x_1^3 - 1$ و $y_1 + y_2 = 3x_2^3 - 1 \Rightarrow y_1 + y_2 = y_1 + y_2$ ✓
 باید تشریح کامل من جمله بنویس! ۱، ۱۷۵

الف) $y = x^2 - 1$ و $y = x^2$ ✓

ب) $|y| + xy = x^2 + 1 \xrightarrow{x=0} |y| = +1 \Rightarrow y = 1, -1$ ✓

ج) $y_1 + x_1^3 = 2x_1 - 1$ و $y_2 + x_2^3 = 2x_2 - 1 \Rightarrow y_1 = y_2 \Rightarrow y_1 = y_2$ ✓
 > $\sqrt[3]{y} + \sqrt[3]{x} = 2 \xrightarrow{x=y} \sqrt[3]{y} + \sqrt[3]{y} = 2 \Rightarrow \sqrt[3]{y} = 1 \Rightarrow y = 1$ ✓

الف) $\tan \frac{\pi}{4} = \tan 45^\circ = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \sqrt{3}$ ✓

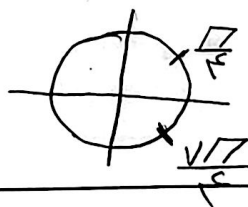
ب) $\cot \frac{\sqrt{17}}{9} = \cot 10^\circ = \frac{-\frac{\sqrt{3}}{2}}{\frac{1}{2}} = -\sqrt{3}$ ✓

ج) $\tan 30^\circ = \frac{\frac{1}{2}}{\frac{\sqrt{3}}{2}} = \frac{1}{\sqrt{3}}$ ✓

> $\cot 11^\circ = \frac{\cos}{\sin} = \frac{\sin}{\cos} \Rightarrow$ وجود ندارد

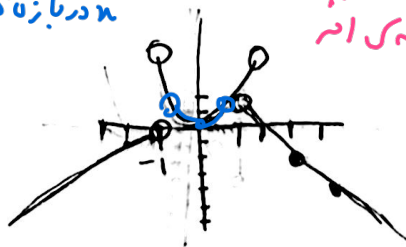
الف) $\sin \alpha = \frac{1}{2} \Rightarrow$  $D_f = \left\{ \frac{\pi}{6}, \frac{5\pi}{6} \right\}$

ب) $\cos \alpha = \frac{\sqrt{2}}{2}$



$D_f = \left\{ \frac{\pi}{4}, \frac{7\pi}{4} \right\}$

$f(x) = \begin{cases} -2x+4, & x > 1 \\ x^2, & -1 < x < 1 \\ x+1, & x < -1 \end{cases}$

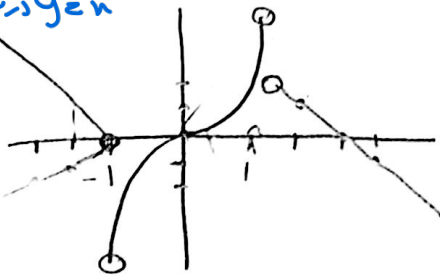


نقطه درست صفحه است

۱، ۱۷۵

معادله [آدا-] است!

$$\begin{cases} -x+3, & x > 1 \\ x^3, & -1 < x \leq 1 \\ -x-1, & x < -1 \end{cases}$$



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الف) $(x-2)(x-3)(x-4) =$

ب) $(x-2)(x-3)^2(x-4) =$

ج) $\frac{(x-2)(x-4)}{(x-3)^2} =$

د) $\frac{(x-2)(x-4)}{x-3} =$

ه) $\frac{x^2-3x+2}{x-3} =$

و) $\frac{x^2-3x+2}{x^2-4x+3} =$

ز) $\frac{x^2-x^2}{x^2+x+2} =$

ح) $\frac{x^2+x+2}{x^2+2x+2} =$

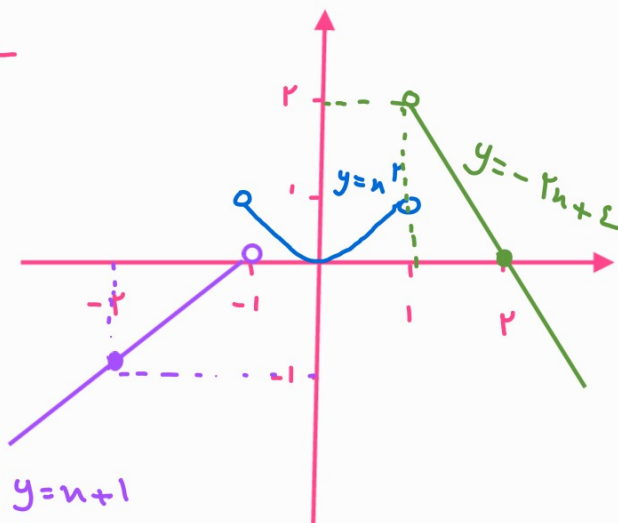
ب- ۱) $\int y_1^2 + y_1 = \frac{y_1^3}{3} - 1$ if $y_1 = y_2$ $y_1^3 + y_1 = y_2^3 + y_2 \rightarrow y_1^3 - y_2^3 + (y_1 - y_2) = 0$
 $(y_1^3 + y_2 = \frac{y_1^3}{3} - 1$ فیل دقتان

$(y_1 - y_2)(y_1^2 + y_1 y_2 + y_2^2) + (y_1 - y_2) = 0 \rightarrow (y_1 - y_2)(y_1^2 + y_1 y_2 + y_2^2 + 1) = 0$

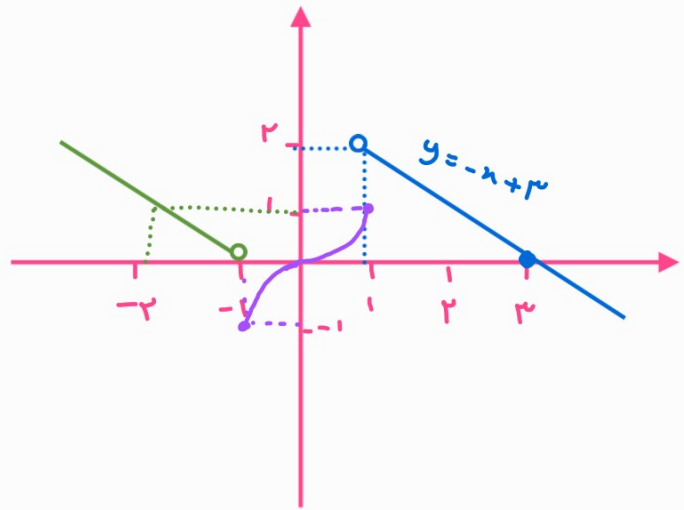
$y_1 = y_2$ بجاست!

$y_1 = \frac{-y_2 \pm \sqrt{y_2^2 - 4(y_2^2 + 1)}}{2}$ x Δ < 0

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الف- ۱۰) $y = \frac{x^2 - x^2}{x^2 + x + 2} = \frac{x^2(x^2 - 1)}{x^2 + x + 2} = \frac{x^2(x-1)(x+1)}{x^2 + x + 2}$ صفر منفذ ← * ۰
∞ ریشه ندارد! + - +