

الف) $x=1 \rightarrow y^2-1=2 \rightarrow y^2=3 \rightarrow y=\pm\sqrt{3} \checkmark$

ب) $x=1 \rightarrow |y+1|=1+2 \rightarrow |y|=3, y=\pm 3 \times$

ج) $\emptyset$ 

د) $x=\cos y \quad x=0 \rightarrow \cos y=0 \rightarrow \times$

الف) $x^2-x \neq 0 \rightarrow D_f = \mathbb{R} - \{0, 1\}$

ب) $\frac{x+1}{x^2-x+1} \rightarrow \Delta < 0 \quad \boxed{D_f = \mathbb{R}}$

ج) $\frac{x+1}{x^2-x+1} \rightarrow x^2-x \neq 0 \quad \boxed{D_f = \mathbb{R}}$

د) $\frac{x+1}{x^2-x+1} \rightarrow x^2+x+1 \neq 0 \rightarrow x^2+x+1 \neq 0$

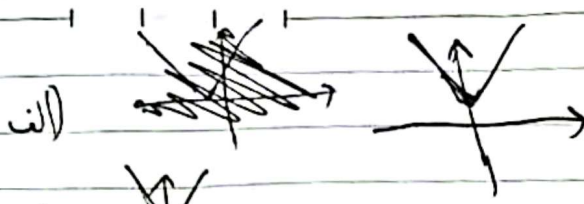
الف) $4-x > 0 \rightarrow x < 4, x > 2 \rightarrow 2 < x < 4$

ب) $x^2+1 \neq 0 \rightarrow x^2 \neq -1 \rightarrow$

ج) $x-1 \neq 0 \rightarrow x \neq 1, x-1 > 0 \rightarrow x > 1 \rightarrow [1, +\infty) - \{1\}$

د) ~~...~~ $(0, +\infty)$

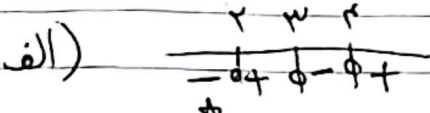
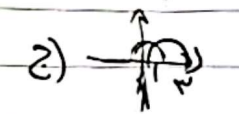
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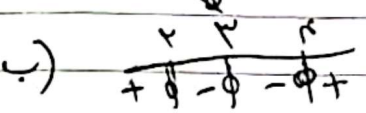
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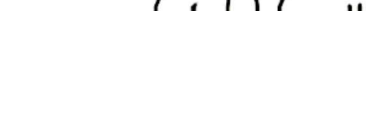
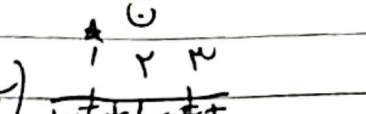
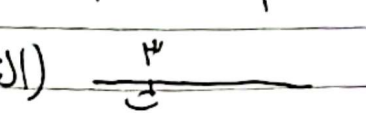
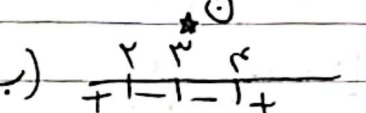
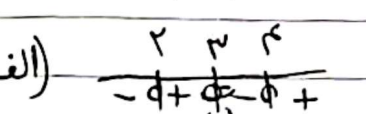
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(16)



(17)



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Subject _____
Date _____

الف) ~~$x^3 - x^2 - x(x^2 - 1)$~~

$$\begin{array}{r} -1 \quad 0 \quad 1 \\ +1 \quad -1 \quad -1 \quad + \end{array}$$

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ب) ~~$x^3 - x^2 - x(x^2 - 1)$~~

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الف) $D_f = R - \{0, 1\}$

ب) ~~$x^3 - x^2 - x(x^2 - 1)$~~

$$\begin{array}{r} -1 \quad 0 \quad 1 \\ +1 \quad -1 \quad -1 \quad + \end{array}$$