

الف) $y^3 - u = 2u^2$ ب) $|y| + u^2 = u + 3$ ج) $\sqrt{u-2} + |y-2| = 0$ د) $u \in \mathbb{C}$ و y

$y^3 = 2u^2 + u$ $|y| + u^2 = u + 3 \rightarrow |y| = 3 - u^2$ $\sqrt{u-2} \geq 0 \rightarrow u \geq 2$ $y = \frac{2}{x}$

$u = 2u^2 \rightarrow y^2 = 4u$ $y = \pm 1$ $B - 2 \geq 0 \rightarrow y = 2$ $y = \frac{2}{x}$

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الف) $y = am + b$ ب) $a = 2$ $(1, 2)$

$y = 2m + b \Rightarrow y = 2m$ $2 = 2 + b \rightarrow b = 0$

$(1, 3)$ $y = k$

$y = 3$

الف) $y = am + b$ ب) $a = 1$ $b = 0$

$1 = 0 + b \rightarrow b = 1$

$y = m$ $y = 2m + b$ $1 = 2 + b \rightarrow b = -1$

$y = m^2 + am + b$ $a = 2$ $b = 0$

$1 = 2 + 0 \rightarrow 1 = 2$ $-1 = 2 + 0 \rightarrow -1 = 2$

$1 = 2 + 0 \rightarrow 1 = 2$ $-1 = 2 + 0 \rightarrow -1 = 2$

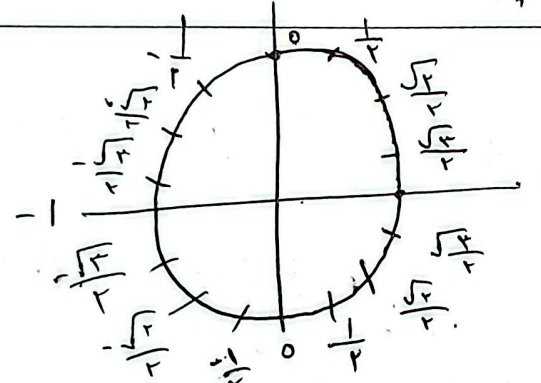
الف) $y = 2m + 1$ ب) $y = -2m + 1$ ج) $y = m^2$ د) $y = m^3$

$y = 2m + 1$ $y = -2m + 1$ $y = m^2$ $y = m^3$

$y = 2m + 1$ $y = -2m + 1$ $y = m^2$ $y = m^3$

الف) $y = -|m+3| + 1$ ب) $y = |m+3| + 3$

$y = -|m+3| + 1$ $y = |m+3| + 3$

الف) $y_2 \frac{n+\varepsilon}{n^2-\varepsilon n}$ $n^2-\varepsilon n \geq 0$ $n(n-\varepsilon) \geq 0$ $\downarrow \quad \downarrow$ $n \geq \varepsilon$ $D_f = \mathbb{R} - \{0, \varepsilon\}$	ب) $\frac{n+\varepsilon}{n^2-\varepsilon n+1}$ $n^2-\varepsilon n+1 \geq 0$ $\Delta \rightarrow b^2 - 4ac = \varepsilon^2 - 4 < 0$ $\rightarrow a = \varepsilon > 0$ $\rightarrow D_f = \mathbb{R}$	ج) $y_2 \frac{n+\varepsilon}{n^2+n+\varepsilon}$ $n^2+n+\varepsilon \geq 0$ $\Delta \rightarrow 1^2 - 4(1)(\varepsilon) = 1-4\varepsilon < 0$ $\rightarrow a = 1 > 0$ $\rightarrow D_f = \mathbb{R}$	د) $\frac{n+\varepsilon}{n^2-\varepsilon n^2}$ $n^2-\varepsilon n^2 \geq 0$ $n^2(1-\varepsilon) \geq 0$ $\downarrow \quad \downarrow$ $1-\varepsilon \geq 0$ $\varepsilon \leq 1$ $D_f = \mathbb{R} - \{x, 0, 1\}$	المسألة 6
الف) $y_2 \sqrt{4-n} + \sqrt{n-2}$ $4-n \geq 0 \rightarrow n \leq 4$ $n-2 \geq 0 \rightarrow n \geq 2$ $D_f = [2, 4]$	ب) $\frac{n+1}{n^2+1}$ $n^2+1 \geq 0$ $n^2 \geq -1$ $D_f = \mathbb{R}$	ج) $y_2 \sqrt{n-2}$ $n-2 \geq 0$ $n \geq 2$ $D_f = [2, +\infty) - \{2\}$	د) $y_2 \frac{n+3}{ n +n^2}$ $n +n^2 \geq 0$ $\rightarrow n \geq 0$ $D_f = \mathbb{R} - \{0\}$	المسألة 7
	المسألة 8	المسألة 9	المسألة 10	المسألة 11
الف) $\frac{\sqrt{3}}{2} \cos \theta + \frac{1}{2} \sin \theta$ ب) $\frac{\sqrt{3}}{2} \cos \theta - \frac{1}{2} \sin \theta$	المسألة 12	المسألة 13	المسألة 14	المسألة 15