

الف)  $y^3 - m^2 = 2m^2$       ب)  $|y| + m^2 = m^2 + 3$       ج)  $\sqrt{m-2} + |y-2| = 0$       د)  $m < 0$  و  $y$

$y_1, y_2$        $y^3 = 3m^2$        $|y| + 2 = 3 \rightarrow |y| = 1$        $\sqrt{m-2} \geq 0 \rightarrow m \geq 2$        $y = \frac{m}{2}$

$m_1, m_2$        $y = 1$        $B-2 \geq 0 \rightarrow y = 2$        $\frac{3m}{2}$

تایید      تایید      تایید      تایید

الف)  $y = am + b$       ب)  $a = 2$       (ب)  $(1, 2)$

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

$2 = 2 + b$        $y = 3$

$b = 0$

الف)  $y = am + b$       ب)  $a = 1$        $y = m$       ج)  $y = am + b$       د)  $y = am + b$

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

$m = \frac{-a}{r}$        $(2, 1)$        $1 = 2r + (-1)(2) + b$        $y = m^2 + am + b$

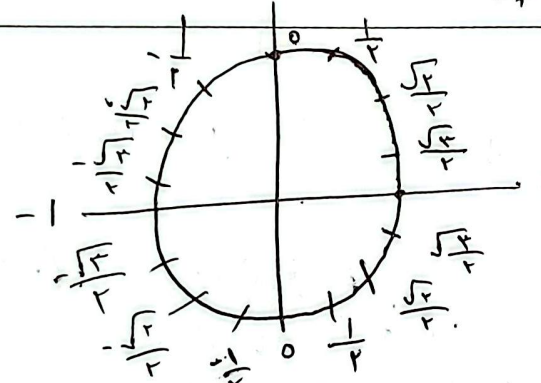
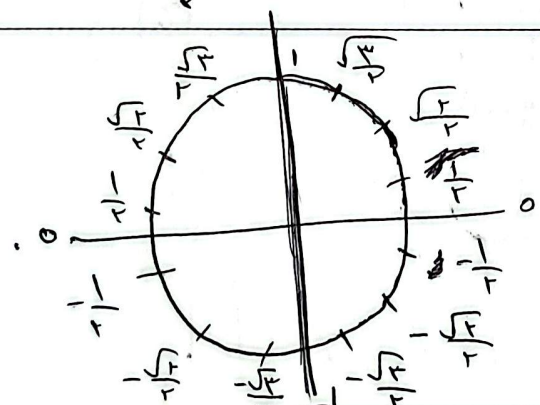
$r = \frac{-a}{r} \Rightarrow a = -r$        $1 = 4 - 2 + b$        $a = 2b$        $\rightarrow -1 + \frac{r(4)}{1} = 9$

$r = 4$        $b = 5$

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

$y = 1$        $y = 1$        $y = 1$        $y = 1$

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

|                                                                                                                                                 |                                                                                                                                                                                         |                                                                                                                                                                  |                                                                                                                                                            |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| $الف) y_2 \frac{n+\varepsilon}{n^2-\varepsilon n}$ $n^2-\varepsilon n \geq 0$ $n(n-\varepsilon) \geq 0$ $D_f = \mathbb{R} - \{0, \varepsilon\}$ | $ب) \frac{n+\varepsilon}{n^2-\varepsilon n+14}$ $n^2-\varepsilon n+14 \geq 0$ $\Delta \rightarrow b^2-4ac = \varepsilon^2-56$ $49 - \varepsilon(11+14) \geq 0$ $D_f \subset \mathbb{R}$ | $ج) y_2 \frac{n+\varepsilon}{n^2+n+\varepsilon}$ $n^2+n+\varepsilon \geq 0$ $\Delta \rightarrow 1^2-4(1)(\varepsilon) = 1-4\varepsilon$ $D_f \subset \mathbb{R}$ | $د) \frac{n+\varepsilon}{n^2-\varepsilon n^2}$ $n^2-\varepsilon n^2 \geq 0$ $n^2(n^2-\varepsilon) \geq 0$ $D_f \subset \mathbb{R} - \{x, 0, \varepsilon\}$ | 6  |
| $الف) y_2 \sqrt{4-n} + \sqrt{n-2}$ $4-n \geq 0 \rightarrow n \leq 4$ $n-2 \geq 0 \rightarrow n \geq 2$ $D_f = [2, 4]$                           | $ب) \frac{n+1}{n^2+1}$ $n^2+1 \geq 0$ $n^2 \geq -1 \times$ $D_f \subset \mathbb{R}$                                                                                                     | $ج) y_2 \sqrt{n-2}$ $n-2 \geq 0$ $n \geq 2$ $D_f = [2, +\infty) - \{2\}$                                                                                         | $د) y_2 \frac{n+3}{ n +n^2}$ $ n +n^2 \geq 0$ $n \geq 0$ $D_f \subset \mathbb{R} - \{0\}$                                                                  | 7  |
|                                                               |                                                                                                                                                                                         |                                                                                                                                                                  |                                                                                                                                                            | 8  |
|                                                              |                                                                                                                                                                                         |                                                                                                                                                                  |                                                                                                                                                            | 9  |
| $r \cos \theta + \frac{\pi}{4}$ $r \cos \theta + \frac{\pi}{4}$ $r \cos \theta = \frac{\pi}{4}$                                                 | $\left[ \frac{1}{r} \right] \leftarrow \frac{1}{r} \leftarrow \frac{\pi}{4} \cos \theta$ $\frac{\sqrt{3}}{2} \leftarrow \frac{\sqrt{3}}{2} \leftarrow \frac{11\pi}{9} \cos \theta$      |                                                                                                                                                                  |                                                                                                                                                            | 10 |