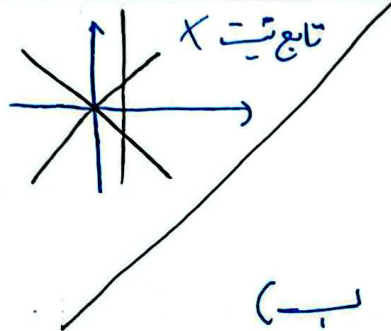


$$f = \{(1, 4a) (1, a^2 + 3), (2, 3a)\} \Rightarrow f_a = a^2 + 3$$

$$f_0 = a^2 - f_a + 3$$

$$f_0 = (a-1)(a-3) \begin{cases} a=1 \\ a=3 \end{cases}$$

الف) $|a| = |n|$



تابع تیت $\checkmark$

ب) $|y| + \sqrt{n-1} = 0 \Rightarrow \begin{cases} y=0 \\ n=1 \end{cases}$

الف) $|y-1| = \sqrt{n-2}$

$n=6 \Rightarrow |y-1| = \sqrt{4} \Rightarrow |y-1| = 2$

ج) $n=0 \Rightarrow y=0$

$\cos^2 y = 1 \Rightarrow y = 0$

تابع تیت

ب) $y^5 - y = \frac{n^2}{y} \Rightarrow 2y^5 - 2y = y^2(y^2 - 1)$

$n^2 = 2y(y^2 - 1) \Rightarrow n^2 = 2y(y^2 - 1)(y^2 + 1)$

$n=0 \Rightarrow y(y-1)(y+1)(y^2+1) = 0$

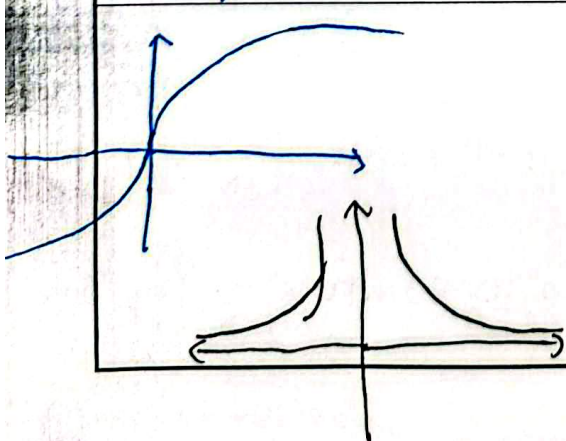
د) $ny = n \Rightarrow n(2y-1) = 0$

الف) $y-1 = 4n - n^2$

$y-1 = -(4n - n^2)$

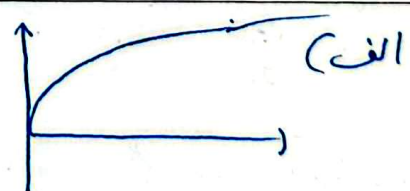
ب) $y = 8 - 4 + 1 = 5$
 $y = -4 + 1 = -3$

ب) $y = 3n \Rightarrow y = 3n$



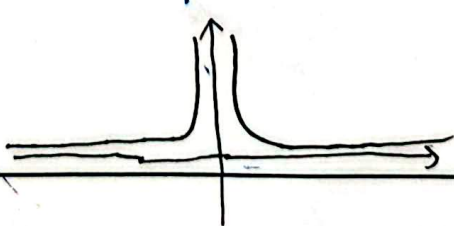
ب)

د)



الف)

ج)



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	(ب)		الف) ٧ ج)
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			٩
	الف) $\cos 120^\circ = -\frac{1}{2}$	ب) $\sin 120^\circ = \frac{1}{2}$	ج) $\cos \frac{2\pi}{3} = \cos 120^\circ = -\frac{1}{2}$ د) $\sin \frac{11\pi}{6} = \sin 330^\circ = -\frac{1}{2}$