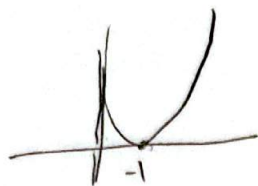
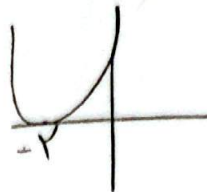


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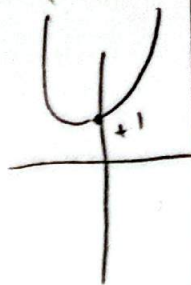
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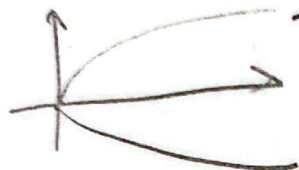


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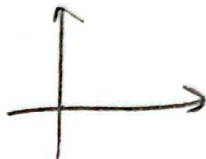
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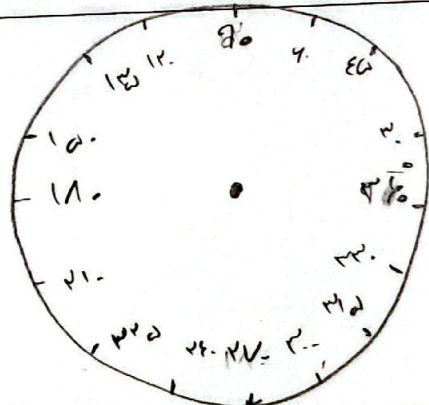
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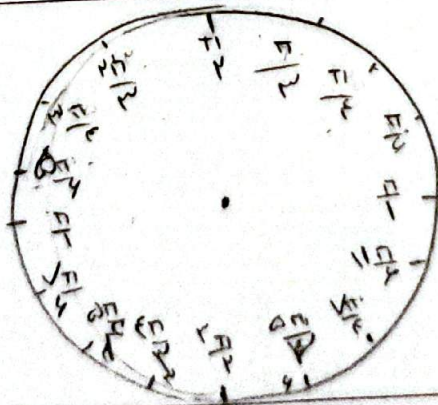
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الف) $\cos 120^\circ = -\cos 60^\circ = -\frac{1}{2}$

جـ) $\cos \frac{2\pi}{3} = \cos 120^\circ = -\frac{1}{2}$

بـ) $\sin 150^\circ = \sin 30^\circ = \frac{1}{2}$

د) $\sin \frac{11\pi}{6} = \sin 330^\circ = -\frac{1}{2}$

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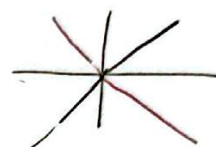
$$f_u = u^2 + 3$$

$$u^2 - 4u + 3 = 0 \rightarrow (u-1)(u-3)$$

$$u = 1 \text{ یا } 3$$

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$$1) \quad m = y \quad \text{و} \quad y = -m \quad \times$$



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$$2) \quad |y| = 0$$

$$y = 0$$

$$\sqrt{m-1} = 0$$

$$m \geq 1$$



$$الف) \quad m = 3 \quad |y-1| = 1 \rightarrow y = 0 \text{ یا } 2 \quad \times$$

$$ب) \quad m = 0 \quad y^4 - y = 0 \quad y(y^3 - 1) = 0 \rightarrow y = 1 \text{ یا } 0 \quad \times$$

$$ج) \quad m = 0 \quad \cos^2 \frac{y}{2} = 1 \quad y = 0 \quad y = 2\pi \text{ یا } 4\pi \quad \times$$

$$د) \quad m = 0 \quad 0 \times y = 0 \quad \text{مربع} = R \quad \times$$

$$m^2 + |y-1| = 4m$$

$$|y-1| = 4m - m^2$$

$$|y-1| = 3$$

$$y = -2 \text{ یا } 4$$

$\times$

$$y^2 + 3m = 0$$

$$y^2 = -3m$$

$$y = \sqrt{-3m}$$

ست ✓

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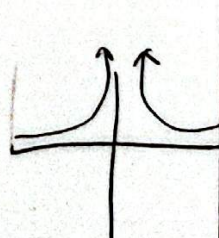
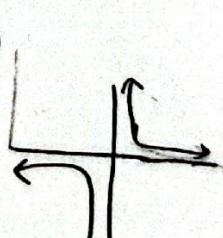
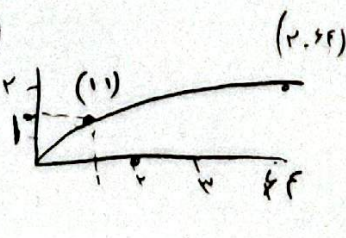
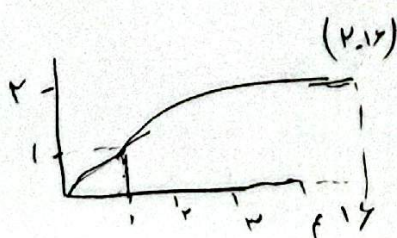
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