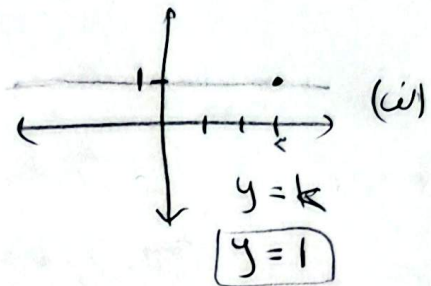
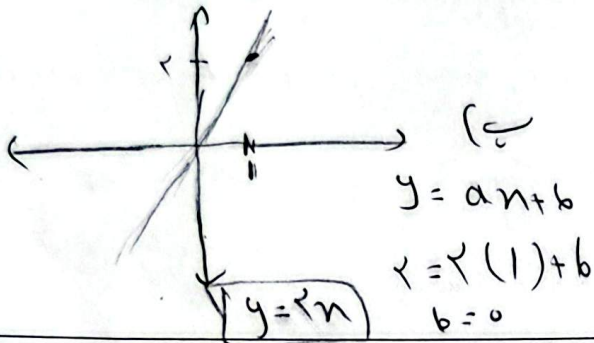


ا) $y^2 - x = 2x^2$ $y^2 = 2x^2 + x$ $y = \pm \sqrt{2x^2 + x}$

ب) $|y| + x^2 = x + 2$ $|y| = -x^2 + x + 2$ $|y| = 2 - x^2$ $y = \pm \sqrt{2 - x^2}$

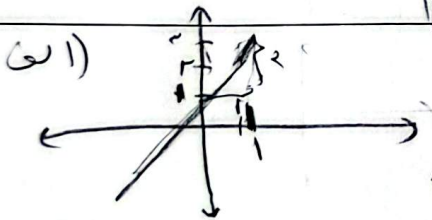
ج) $\sqrt{x-4} + |y-2| = 0$ $\sqrt{x-4} = 0$ $|y-2| = 0$ $x = 4$ $y = 2$

د) $x = \cos y$ $\cos y = 0$ $y = \frac{\pi}{2}, \frac{3\pi}{2}$

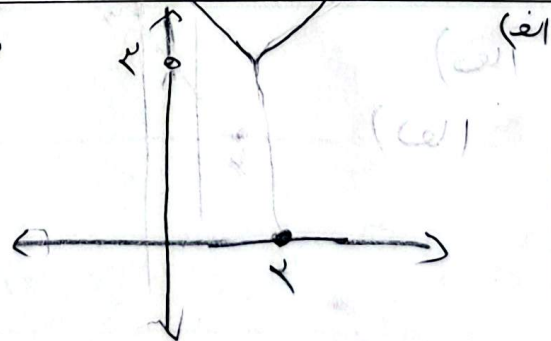
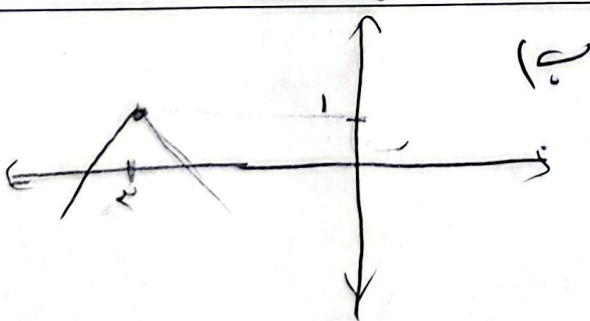
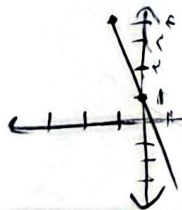


ا) $y = x$ $a = 1$ $b = 0$ $a + 2b = 1 + 2(0) = 1$

ب) $y = x^2 + ax + b$ $1 = 2^2 + (-4) + b$ $b = 5$ $a = -4$



ج)



$$a) \frac{n+f}{n^2-fn} = \frac{n^2-fn}{n^2-fn} \neq 0 \quad D_f = \mathbb{R} - \{0\}$$

$$b) \frac{n+f}{n^2-fn} = \frac{n^2-fn}{n^2-fn} \neq 0 \quad D_f = \mathbb{R} - \{0\}$$

$$c) \frac{n+f}{n^2-fn} = \frac{n^2-fn}{n^2-fn} \neq 0 \quad D_f = \mathbb{R}$$

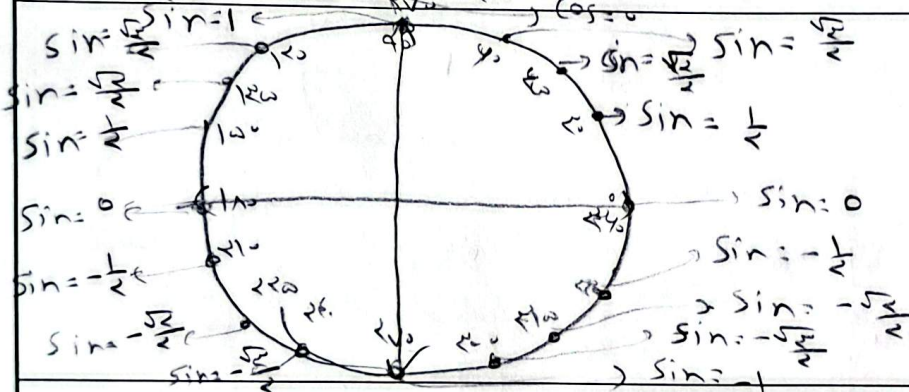
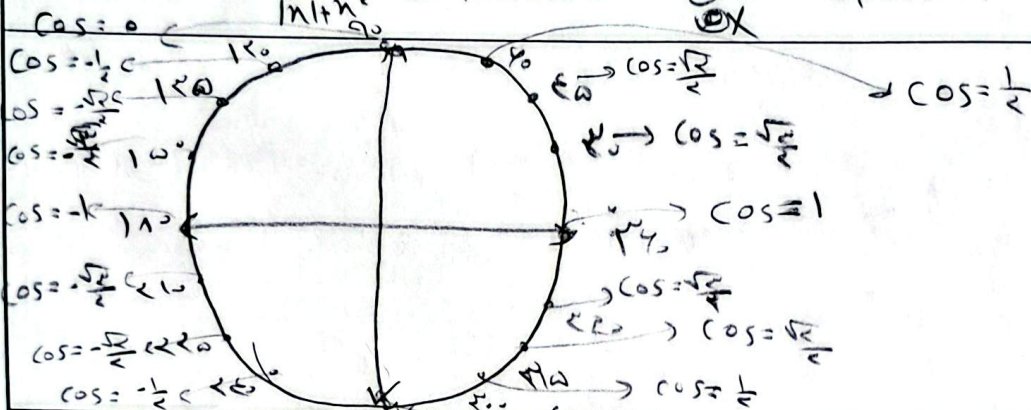
$$d) \frac{n+f}{n^2-fn} = \frac{n^2-fn}{n^2-fn} \neq 0 \quad D_f = \mathbb{R}$$

$$e) y = \sqrt{4-n} + \sqrt{n-2} \rightarrow 4-n \geq 0 \quad n-2 \geq 0 \quad 2 \leq n \leq 4 \quad D_f = [2, 4]$$

$$f) y = \frac{n+1}{n^2+1} \quad n^2+1 \neq 0 \quad n^2 \neq -1 \quad D_f = \mathbb{R}$$

$$g) \frac{\sqrt{n-2}}{n-f} \quad n-f \neq 0 \quad n \neq f \quad n-2 \geq 0 \quad D_f = (2, +\infty) - \{f\}$$

$$h) \frac{n+f}{n^2+f} = \frac{n^2+f}{n^2+f} \neq 0 \quad D_f = \mathbb{R} - \{-f\}$$



$$i) \sin \frac{\pi}{6} = \frac{1}{2} \quad \sin \frac{5\pi}{6} = \frac{1}{2} \quad \cos \frac{\pi}{6} = \frac{\sqrt{3}}{2} \quad \cos \frac{5\pi}{6} = -\frac{\sqrt{3}}{2}$$

$$j) \sin \frac{7\pi}{6} = -\frac{1}{2} \quad \sin \frac{11\pi}{6} = -\frac{1}{2} \quad \cos \frac{7\pi}{6} = -\frac{\sqrt{3}}{2} \quad \cos \frac{11\pi}{6} = \frac{\sqrt{3}}{2}$$