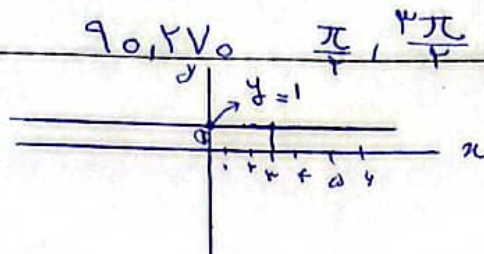


11VG

$$0 = \cos y$$



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

الف)

$y = 2x \Leftrightarrow y = ax + b$ (ب)
 $y = 2x + b$
 $b = 0$
 $1 + 2(0) = 1$
 $b = 0 \quad a = 1$ (ج)

$$y = ax + b$$
$$x = ax + b$$

$$1 + \gamma(0) = 1$$

$$b=0 \quad \alpha=1$$

$$y = x^y + \underline{a}x + b$$

$$\frac{-b}{2a} = x$$

$$\frac{-a}{y} = y$$

$$a = -r$$

$$a + \gamma b = -x + \gamma(\Delta) = \underline{9}$$

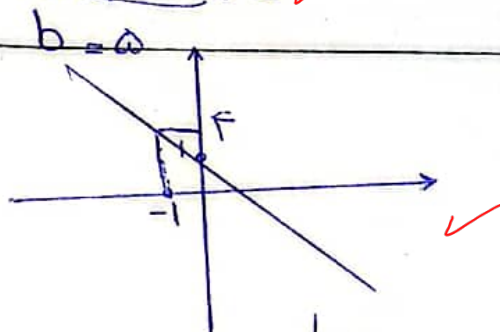
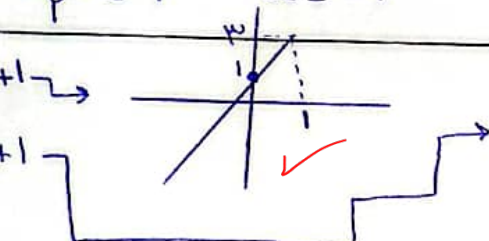
$$1 = f_{\pm} p_x - f_{\pm} b \quad \checkmark$$

$$b = \omega$$

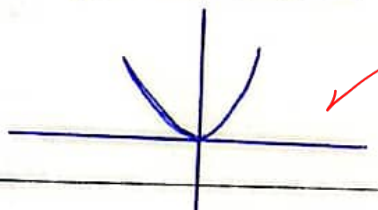
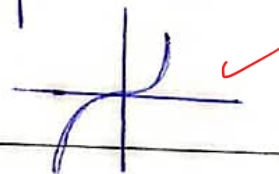
الف) $y = 2x + 1 \rightarrow$

→ $y = -\frac{1}{2}x + 1$

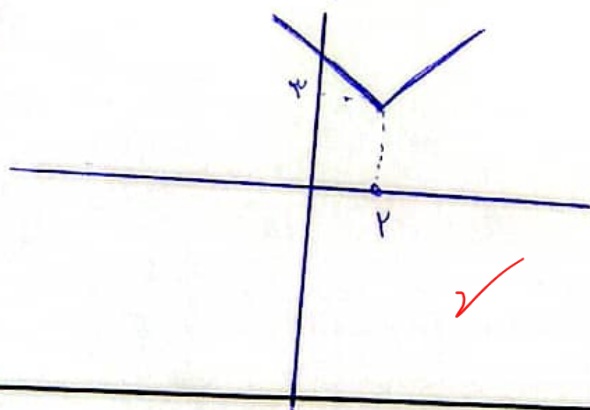
20) $y = x^x$



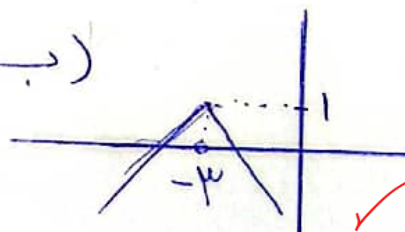
$$y = x^a$$



الف



ب



24

9001

$$D_f = \mathbb{R}$$

$$P_r = R - \{0, +r, -r\}$$

$$D_f = [x, y]$$

$$D_f = \mathbb{R}$$

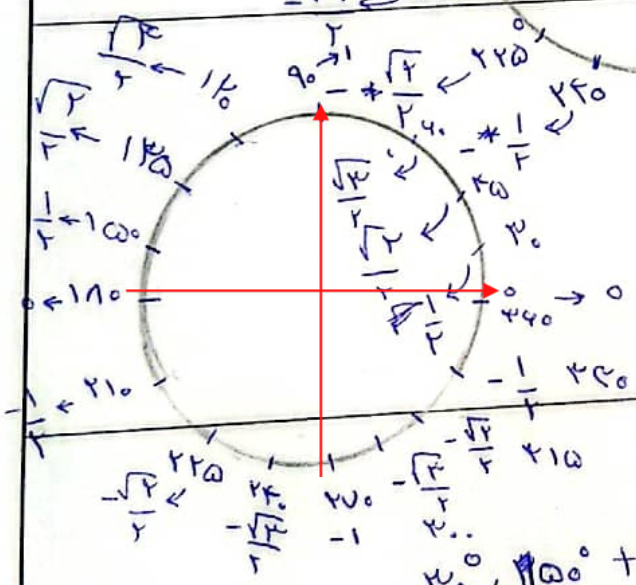
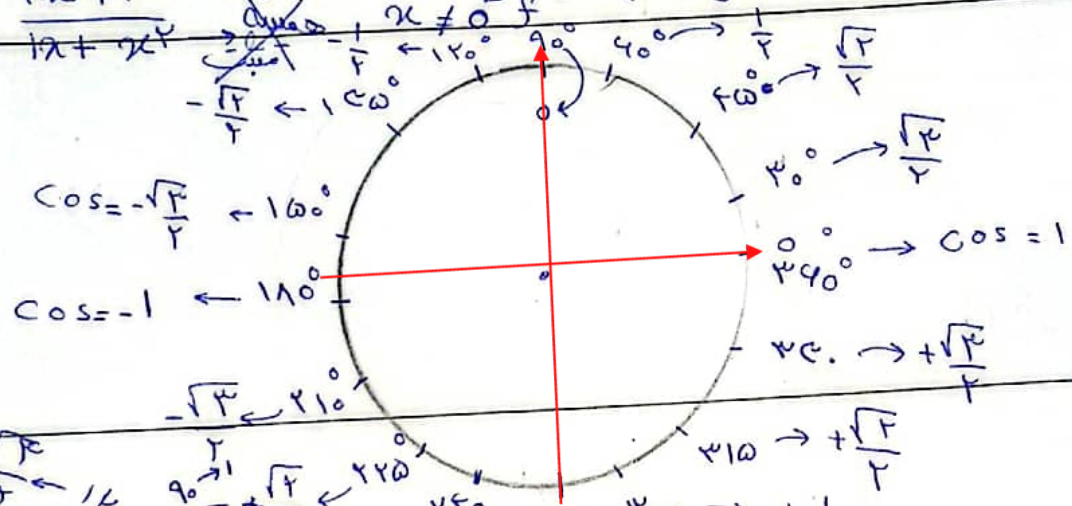
$$n-t \geq 0$$

$$x \geq y$$

$$x \neq f$$

$$[r, +\infty) - \{r\}$$

$$D_f = R - \{0\}$$





$$\mu_0, \mu_0 + \frac{1}{r} = \omega_0$$

$\frac{\pi}{\mu} \mu_0$

$\frac{\pi}{\mu}$

μ_{oo}

$\frac{\sqrt{\mu}}{r} + \frac{\sqrt{\mu}}{r} = \frac{11\pi}{4}$

$$الف) y^3 - x = 2x^2$$

-۱

$$\left. \begin{array}{l} y_1^3 = x_1 + 2x_1^2 \\ y_2^3 = x_2 + 2x_2^2 \end{array} \right\} \xrightarrow{x_1 = x_2} \begin{array}{l} y_1^3 = x + 2x^2 \\ y_2^3 = x + 2x^2 \end{array} \rightarrow y_1^3 = y_2^3 \Rightarrow \underline{\underline{y_1 = y_2}} \quad \text{تابع است.}$$

-۲

$$ب) y = \frac{x+4}{x^2 - 7x + 14}$$

$$\rightarrow x^2 - 7x + 14 \neq 0 \rightarrow \Delta = b^2 - 4ac \rightarrow (-7)^2 - 4(14) = 49 - 56 = -15 \quad \Delta < 0$$

بنابراین خارج ریشه ندارد.

$$Dy = \mathbb{R}$$

$$ج) y = \frac{x+4}{x^2 + x + 4}$$

$$\rightarrow x^2 + x + 4 \neq 0 \rightarrow \Delta = b^2 - 4ac \rightarrow (1)^2 - 4(1)(4) = -15 \quad \Delta < 0$$

بنابراین خارج ریشه ندارد.

$$Dy = \mathbb{R}$$