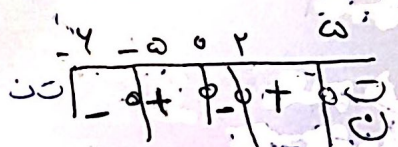


$$x f(x) \geq 0$$

$$P_f = [-4, 5]$$

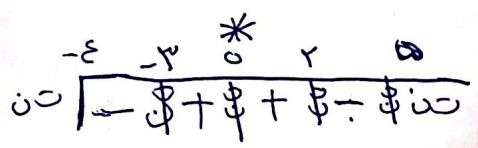
-۱



$$[-5, 0] \cup [2, 5]$$

$$\frac{-x}{f(x)} \geq 0, f(x) \neq 0 \Rightarrow f(x) \neq -3, 2, 5$$

-۲



$$(-3, 0) \cup (0, 2) \rightarrow \text{شکل ۳ کے درجہ اولیٰ}$$

$$f(x) - x f(x) = \frac{x}{x+1}$$

$$-f(x) = \frac{x}{x+1}$$

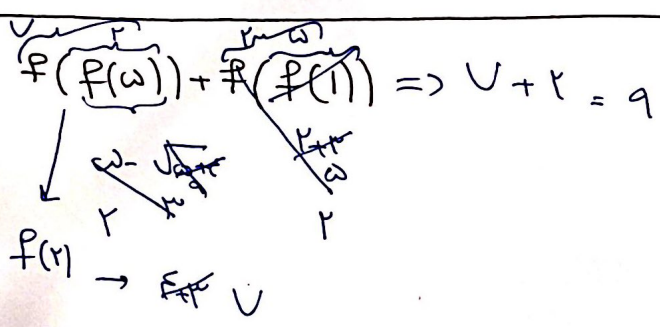
$$f(x) = -\frac{x}{x+1}$$

$$f(-2) - x f(x) = \frac{x}{x+1}$$

$$f(-2) + \frac{1}{2} = \frac{x}{x+1}$$

$$f(-2) = 1$$

-۳



-۵

$$a(n-1)^2 - b(n-1) + 2 - an^2 + bn - 2 = a(n^2 - 2n + 1)$$

$$an^2 - 2an + a - bn + b + 2 - an^2 + bn - 2 = -2an + a + b - 4n + 2$$

$$a - b = -2 - a = -4$$

$$a = -2$$

$$b = a$$

$$f(x) \rightarrow 9 - 9 + 1 = 1$$

$$f(-1) \rightarrow \cancel{1 - 1} + 1 = 1$$

$$f(x) \Rightarrow \cancel{x - x} - 1 = -1$$

$$\frac{\cancel{f(x)} + \omega}{1} = \boxed{V}$$

$$f(x) \rightarrow 11 + 1 = 12$$

$$f(-x) \rightarrow x$$

$$f(x) \rightarrow V$$

$$\frac{\cancel{f(x)} - \cancel{f(x)}}{\cancel{f(x)}} = \boxed{\frac{V}{V}}$$

$$\frac{\cancel{f(x)} - \cancel{f(x)}}{\cancel{f(x)} - x} = \frac{0}{x} \Rightarrow \text{undefined}$$

$$f(x) = \frac{(x+1)^r + \omega}{(x+1)^r + 1}$$

$$\Rightarrow \frac{(\cancel{V} - \cancel{f(x)})^r + \omega}{(\cancel{V} - \cancel{f(x)})^r + 1}$$

$$= \frac{\Delta}{x} = \boxed{\frac{V}{x}}$$

$$f(x) = \frac{\cancel{f(x)} + \omega}{\cancel{f(x)} + 1}$$

$$(f(\sqrt{x}))^r - f(x)$$

$$\left(x + \frac{1}{x}\right)^r - x^r + \frac{1}{x^r}$$

$$\cancel{x^r + r + \frac{1}{x^r}} - \cancel{x^r} - \frac{1}{x^r} = \boxed{r}$$