

5, 100/100

- 5

$$|x| - [x] \neq 0 \rightarrow Df. R. w \quad \checkmark$$

(الف) 2

$$xy_0, y_1, 0 \rightarrow \sqrt{y} = 9 - \sqrt{x}$$

$$9 - \sqrt{x} = 0 \rightarrow 9 = \sqrt{x} \rightarrow 81 = x$$

$$Df. [0, 81] \quad \checkmark$$

(ب)

$$xy_0, 3x-1, 0, x \neq 1$$

$$y = \frac{1}{x}$$

$$y = \frac{3x-1}{x} \rightarrow x \leq 3x-1$$

$$Df. \left(\frac{1}{3}, \frac{1}{2} \right] \cup (1, +\infty)$$

(الف) 1, 75

(الف)

$$f(x) = \frac{1}{x + \sqrt{|x| - |x|}} \rightarrow \frac{1}{x + \sqrt{|x| - |x|}} = 0 \rightarrow (\sqrt{|x|} - 2)(\sqrt{|x|} + 2) = 0$$

$$\begin{array}{c|c|c} -9 & 9 & \\ \hline + & - & + \end{array}$$

(ب)

$$Df = (-9, 9) \rightarrow \sqrt{|x|} = 2$$

$$\frac{3x+2}{x+b} + a = 0 \rightarrow x+b \neq 0 \rightarrow x \neq -b \quad x \neq -b \Rightarrow b \neq -2$$

(الف) 1, 25

$$b = -2 \leftarrow \text{ممنوع}$$

$$a = -3 \leftarrow \text{شبه صورت باید از بین برود}$$

$$y = \sqrt{f(x) - x + 1} \quad f(x) = \begin{cases} 2x-1 & [x] \geq 1 \\ x+2 & [x] \leq 1 \end{cases}$$

$$Df = \left[-\frac{1}{2}, +\infty \right) \quad \checkmark$$

(الف) 2

$$xy, \infty \rightarrow y = \sqrt{2x-1-x+1} = \sqrt{x} \rightarrow xy, 0$$

$$x < \infty \Rightarrow xy = \frac{x}{\sqrt{x}}$$

$$\frac{x(2x+1)^{\frac{1}{2}}}{(2x+1)^{\frac{1}{2}}} \rightarrow \frac{x}{2x+1} \Rightarrow 2x+1 \neq 0 \quad Df = R - \left\{ -\frac{1}{2} \right\}$$

(الف) 2

$$\sigma, \omega / b \mu$$

$$r_x - a < 0 \rightarrow x < \frac{a}{r}$$

$$\textcircled{r} - l_0$$

$$1 - \text{by} (r_x - a) < 0$$

$$\rightarrow \text{by}_{l_0}^{r_x - a} \leq 1 \rightarrow r_x - a \leq l$$

$$Dy = \left(\frac{a}{r}, \omega + \frac{a}{r} \right) \Rightarrow (b, c) \Rightarrow b = \frac{a}{r} \Rightarrow c = \omega + \frac{a}{r}$$

$$\Rightarrow c - b = \omega + \frac{a}{r} - \frac{a}{r} = \omega \quad \checkmark$$