

19,5

ملائق للبيان

$$\text{الف) } \begin{aligned} 9 &= 3x - y \rightarrow 1x - 4x - 2y \\ - \varepsilon &= x + 2y \end{aligned}$$

-1
5

$$\frac{x}{y} = -\frac{2}{3}$$

$$\frac{1\varepsilon = 7x}{x = 2} \quad y = -2$$

$$\therefore) -a(-1) = \frac{1}{x} - \frac{1}{y} = a = -\frac{a}{x} + \frac{a}{y}$$

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

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

Rali

$$2 = \frac{-2}{y} \Rightarrow y = 1$$

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

$$a+1 = -2 \rightarrow a = -3$$

$\textcircled{2} - 2$

$$f(x) + 2f(x) = 3f(x)$$

$$-3 + 2b = -3 \rightarrow b = 0$$

$$m^2 - 3m = -2 \rightarrow m^2 - 3m + 2 = 0$$

$$(m-1)(m-2) = 0$$

$$m = 1, 2$$

$$m = 2 \rightarrow (3, 2), (3, 9) \text{ تابع است}$$

$$m = 1 \rightarrow (2, 2), (2, 9) \text{ تابع است}$$

بازای هیچ مقدار

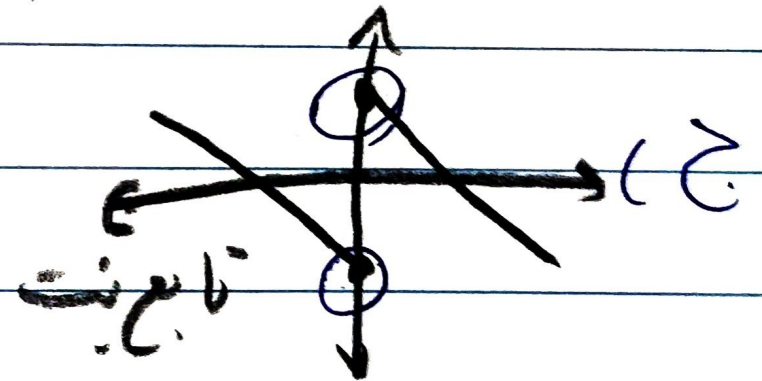
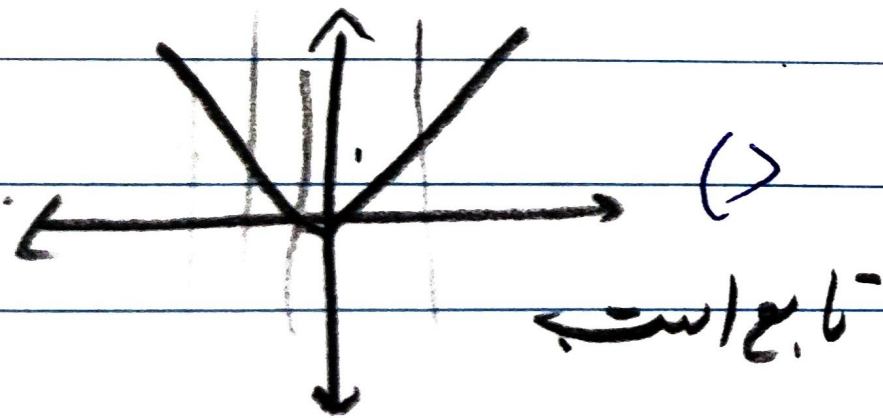
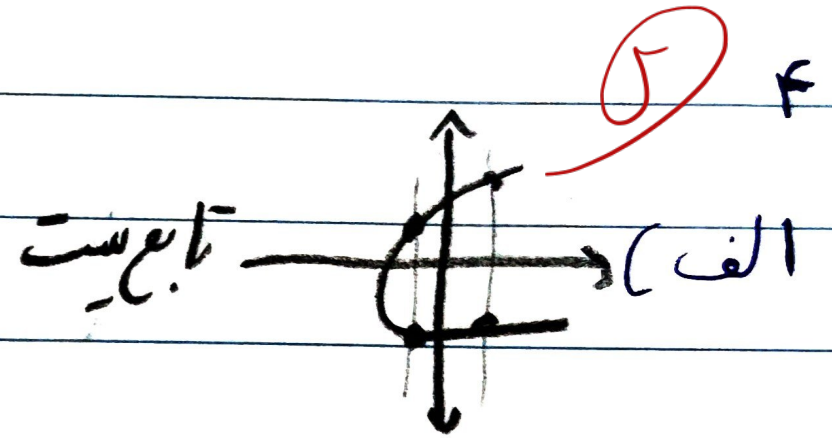
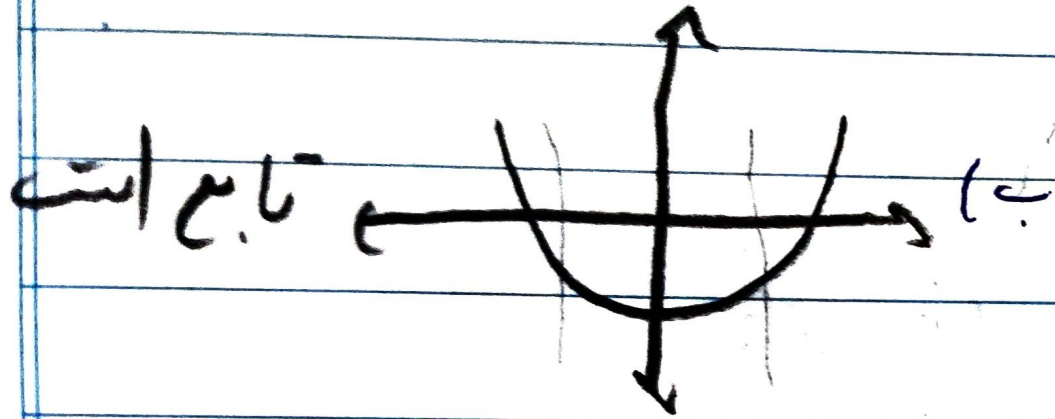
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$$f(x) = -\sqrt{x+1}$$

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تعریف ریاضی $\rightarrow y_1 = -\sqrt{x_1+1}$ $x_1 = x_2$
 $y_2 = -\sqrt{x_2+1} \Rightarrow y_1 = y_2$
 تابع است

ب) $x_1 = \frac{y_1^2}{1-y_1^2}$ $x_2 = \frac{y_2^2}{1-y_2^2}$ $x_1 = x_2$

$\frac{y_1^2}{1-y_1^2} = \frac{y_2^2}{1-y_2^2}$ \rightarrow مضربها + و الیاد y_2^2
 هر سمت اند \rightarrow مضرب + و الیاد y_1^2

$y_1^2 - y_1^2 y_2^2 = y_2^2 - y_1^2 y_2^2$ $y_1^2 = y_2^2$ $y_1 = y_2$
~~تابع است $y_1 = y_2$~~

۶ $|y| = 1 \rightarrow f = \pm 1$ $|y| = x$ \rightarrow تابع است

تعریف ریاضی (ب) $\rightarrow x_1 = x_2 \Rightarrow 3y_1^2 + 3y_2^2 + 3y_1 + 1 =$

$\Rightarrow \sqrt{(y_1+1)^3} = \sqrt{(y_2+1)^3}$ $3y_1^2 + 3y_2^2 + 3y_1 + 1 =$

$y_1 + 1 = y_2 + 1 \Rightarrow y_1 = y_2$ تابع است
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$$\frac{(\sqrt{r-r})^r + \epsilon(\sqrt{r-r}) + \Delta}{(\sqrt{r-r})^r + \epsilon(\sqrt{r-r}) + V} = \textcircled{3} - \checkmark$$

$$\frac{r + r - \cancel{\epsilon\sqrt{r}} + \cancel{\epsilon\sqrt{r}} - \Delta + \Delta}{r + r - \cancel{\epsilon\sqrt{r}} + \cancel{\epsilon\sqrt{r}} - \Delta + V} = \frac{\epsilon}{1} = \frac{r}{r}$$

$$y = rx - a \rightarrow -\epsilon = r(-1) + a \quad \textcircled{3} - \Delta$$

$$a = +1$$

$$f(-1) = (-1)^r + (-1)(1) + b = -\epsilon$$

$$b = -r$$

$$x^r + x - r = rx - 1 \rightarrow x^r - rx - 1 = 0$$

$$(x+1)(x^r - x - 1) = 0$$

$$\boxed{\frac{-b}{a} = 1}$$

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$$a + b = \gamma a \Rightarrow a = b$$

5 - 1

$$\gamma a = a - \gamma b + 1 \rightarrow \gamma a = a - \gamma(a) + 1$$

$$\gamma a = 1 \rightarrow a = \frac{1}{\gamma} = b$$

5 - 10

$$f(0) = \frac{c+1}{\gamma} = 0 \rightarrow c = -1$$

$$f(1) = \frac{c - a}{b + \gamma} = 1 \rightarrow c - a = b + \gamma$$
$$a + b = 1$$

$$\frac{a+b}{1} + \frac{c}{-1} = \boxed{10}$$