

۱۰۲

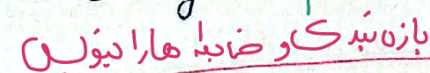
✓ (-V)

②

②

1,28 (F)

1



②

$$a-b \Rightarrow -1 - 1 = -2$$

$$\frac{x(x^2-1) + 2(x^2-1)}{x^2-1} = \frac{(x^2-1)(x+2)}{x^2-1} = x+2 \Rightarrow C-2 \Rightarrow g(x) = x+2$$

$$\frac{a+2}{1+b} = 2, \quad \frac{-a+2}{b-1} = 1 \Rightarrow \begin{cases} b+a=4 \\ 2b-a=1 \end{cases} \Rightarrow b = \frac{1}{3}, a = \frac{11}{3} \Rightarrow b+c = 2 + \frac{1}{3} = \frac{7}{3}$$

$$\sqrt{b-4x} \xrightarrow{x=1} \sqrt{b-4} = 0 \Rightarrow b=4$$

چون فقط ۱ در دامنه هست پس

$$n = \frac{4}{3} \Leftarrow \text{رد می شود}$$

$$\Rightarrow 2f-g = 2K-2-3K = -K \Rightarrow -2 = -K \Rightarrow K = 2$$

$$\Rightarrow 3a - \frac{b}{2} - K = 4 - 2 + 1 = 3$$

$$D_f = [-1, +\infty) \text{ و } D_g = (-\infty, 7] \Rightarrow m=7$$

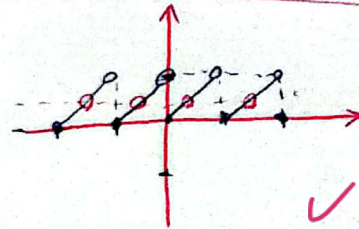
$$f(n) = \sqrt{7-n} + n$$

$$g(x) = \sqrt{2(x/3)+2} = \sqrt{1} + 2\sqrt{2}$$

$$\rightarrow 2+n - 2\sqrt{2} = 4\sqrt{2} \Rightarrow n = 8\sqrt{2} - 2$$

$$8\sqrt{2} - 2 + 7 = 8\sqrt{2} + 5$$

$$y = (-1)^x (x - [x]) = x - [x] = y \Rightarrow$$



خط $y = \frac{1}{2}$ چهار بار، نمودار را قطع می کند
پس چهار جواب دارد.