

پاسخ حسابان

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$$\left| \begin{array}{cc} 2 & \times 2 \\ 9 & + 7 \end{array} \right| \begin{array}{cc} 8 & + 1 \\ 10 & \div 3 \end{array} \quad \begin{array}{c} \dot{A} \\ \left| \begin{array}{c} 9 \\ 0 \end{array} \right. \end{array}$$

-2

$$y = \sqrt{x} \rightarrow \sqrt{x+1}$$

$$\rightarrow -3 + \sqrt{4x + 1} \rightarrow -3 + \sqrt{4x + 1} + 0 = \sqrt{4x + 1} + 2$$

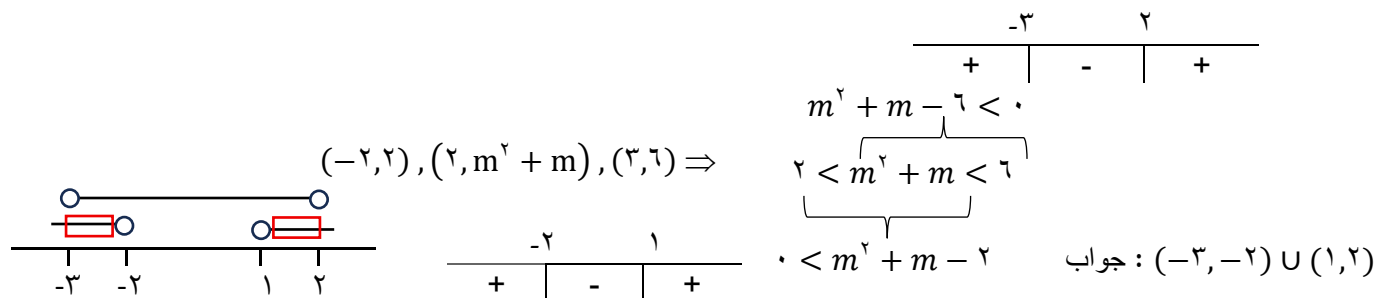
$$\sqrt{2x+2}+2=\frac{5}{2} \Rightarrow \sqrt{2x+2}=\frac{3}{2} \Rightarrow 2x+2=\frac{9}{4} \Rightarrow 2x=\frac{1}{4} \Rightarrow x=\frac{1}{8}$$

-۳-

$$\text{حاصل ضرب} = -\frac{b}{1} = 3 \Rightarrow b = 3$$

$$f(y) = 1 + y + ya - 3 = 0 \Rightarrow a = -1$$

- 3

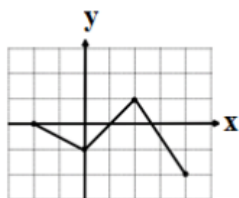


— 5

$$0x - 1 < 3x + 2 \quad \text{و} \quad 0x - 1 > . \quad \text{و} \quad 3x - 2 > .$$

Number line diagram for the union of two intervals. The number line has points labeled $-\frac{1}{2}$, 2 , and 6 . There are open circles at $-\frac{1}{2}$ and 6 , and open circles at 2 and 6 . A red box highlights the interval $(2, 6)$. The text $x < 6$ is written above the line, and $x > -\frac{1}{2}$ is written above the line. The final answer is given as $(2, 6)$.

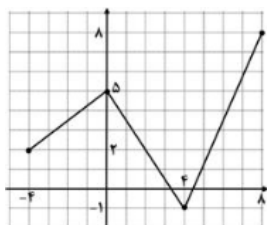
①



گزینه درست: ه

سوال ۱

$$R = [-1, 1]$$

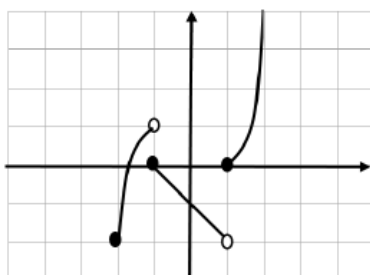


②

گزینه درست: ه

سوال ۲

$[-2, -1)$ صعودی، $[1, +\infty)$ صعودی
نزولی $[-1, 1)$



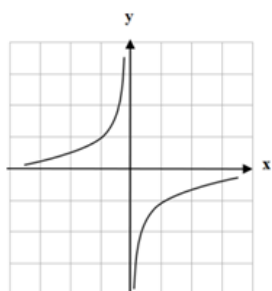
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گزینه درست: ه

سوال ۳

$$p(2) = 3 \Rightarrow 12 + 2m + 2m + 1 = 3 \Rightarrow 4m = -10 \Rightarrow m = -\frac{5}{2}$$

$$f(-2) = -\frac{5}{2}(-2)^2 - \left(-\frac{5}{2}\right)(-2) + 3 = -12$$



④

گزینه درست: ه

سوال ۴

الف) $(0, +\infty)$ اکیداً یکنوا (اکیداً صعودی) و $(-\infty, 0)$ اکیداً یکنوا (اکیداً صعودی)
ب) خیر، در کل دامنه اکیداً یکنوا نیست.

چون $f(x)$ بر $(x+1)$ بخش پذیر است پس باقی مانده تقسیم صفر است.

$$f(-1) = 0 \Rightarrow 1 - a - 3 = 0 \Rightarrow a = -2$$

$$f(2) = 4 - 4 - 3 = -3$$

پاسخ زبان

- ۱- distinguished ۳- inspiration
۲- distinguished ۴- shouted
۵- e ۶- c ۷- b ۸- a
۹- boosts ۱۰- generation ۱۱- spares
۱۲- advice
۱۳- c ۱۴- d ۱۵- a ۱۶- b
۱۷- is / was made ۱۸- has been broken
۱۹- was taught ۲۰- was invented / has been invented
۲۱- A lot of workers have been employed during the last five years.
۲۲- The robber was found by the police last week.
۲۳- The little girl feeds the pigeons everyday. Pigeons are fed everyday.