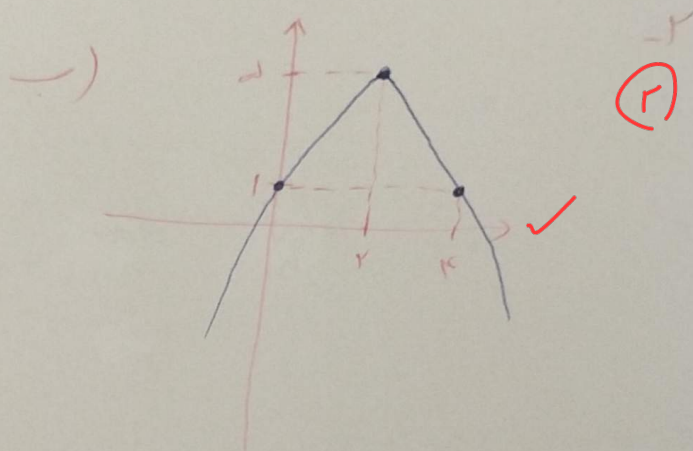
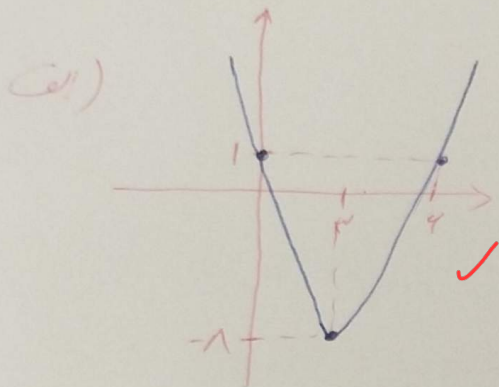


19, V2

ca)  $\min \left| \begin{matrix} 1 \\ -1 \end{matrix} \right| \checkmark$

(r)

→)  $\max \left| \begin{matrix} 0 \\ -c \end{matrix} \right| \checkmark$



$x^r - 5x + p = x^r - x - r \Rightarrow a = -1 \text{ or } a = r$   
 $B = r \text{ or } B = -1$

(r)

$\Rightarrow -r + k + 9 - r = 0 \Rightarrow k = 2r - 9 \checkmark$

$$\begin{cases} \frac{c'm - \sqrt{9m^r - fm}}{r} = (a+1) \textcircled{1} \\ \frac{c'm - \sqrt{9m^r - fm}}{r} = a \textcircled{2} \end{cases} \xrightarrow{\textcircled{1} + \textcircled{2}} r m = r a^r + r a + 1 \xrightarrow{\times r} 4 m r = r a^r + r a + r$$

$$\xrightarrow{\textcircled{1} - \textcircled{2}} \sqrt{9m^r - fm} = r a + 1 \Rightarrow 9m^r - fm = r^2 a^2 + 2ra + 1$$

$$9m^r - 10m = 1$$

(r)

$\Rightarrow 9m^r - 10m + 1 = 0 \begin{cases} m = 1 \\ m = 1/9 \rightarrow \text{BSE} \end{cases}$

$x^r - x - 1 \xrightarrow{\frac{c}{a}} \left[ -\frac{1}{r} \right] \checkmark$

$\frac{\sqrt{0}}{|a|} \times m = \frac{r}{r} \Rightarrow \frac{(\sqrt{(m-r)^r}) m}{r} = \frac{r}{r} \Rightarrow m^r - r m = 0 \Rightarrow m^r - r m = 0$

(r) MSC  
ms-1

$\begin{cases} y = x^r - c|x| \rightarrow x = \frac{-b}{ra} = \frac{r}{r} \\ y = x^r + c|x| \rightarrow x = \frac{-b}{ra} = -\frac{1}{r} \end{cases} \checkmark$

$$x = \frac{-b}{2a} = \frac{-c}{2a}$$

(1VA) - 7

$$a\left(\frac{-c}{2a}\right)^2 + b\left(\frac{-c}{2a}\right) + c = \frac{-9}{2a} + a \Rightarrow \frac{4a^2 - 9}{2a} = \frac{1}{2}$$

$$\Rightarrow 4a^2 - 9a - 1 = 0 \Rightarrow \begin{cases} a = 2 \\ a = \frac{9}{4} \end{cases} \checkmark$$

عوضه  $a$  باینه صفت بانه تا min بانه

$$x^2 - (a+1)x + a = 0 \Rightarrow \frac{c}{a} = a \Rightarrow a = 2$$

(2) - 7

$$x^2 - 10x + b = 0 \Rightarrow \begin{cases} \frac{10 + \sqrt{100 - 4b}}{2} = y + 2 \\ \frac{10 - \sqrt{100 - 4b}}{2} = y \end{cases} \Rightarrow \sqrt{100 - 4b} = 2 \Rightarrow 100 - 4b = 4 \Rightarrow b = 24$$

$$\Rightarrow b - a = 24 - 2 = 22 \checkmark$$

$$\text{ext} \left| \begin{array}{l} \frac{-b}{2a} \rightarrow \frac{-a}{-2a} = \frac{1}{2} \\ \frac{-c}{2a} \rightarrow \frac{-a}{2} + \frac{a}{2} + 1 = \frac{a+1}{2} \end{array} \right.$$

(2) - 7

$$\Rightarrow \frac{b}{2} - \frac{b}{2} - 1 = \frac{a+1}{2} \Rightarrow a = 12 \checkmark$$

$$\text{ext} \left| \begin{array}{l} \frac{-b}{2a} \rightarrow \frac{b}{2b} = \frac{1}{2} \\ \frac{-c}{2a} \rightarrow \frac{b}{2} - \frac{b}{2} - 1 = \frac{-(b+1)}{2} \end{array} \right.$$

$$b - a = -4 + 12 = 8 \checkmark$$

$$\Rightarrow \frac{c}{2} - c + 1 = -\frac{1}{2} = \frac{-(b+1)}{2} \Rightarrow b+1 = 2 \Rightarrow b = 1 \checkmark$$

$B \rightarrow$  اولی مرتبه  $\left\{ \begin{array}{l} B > 0 \rightarrow d < B \Rightarrow d < 0 \Rightarrow 2d < 0 \Rightarrow \text{تلفظ}$

(2) - 7

$$y_{\max} = \frac{-b^2 + 4ac}{4a} = \frac{0}{4} = 0 \rightarrow \text{تلفظ}$$

$$a^2 b^2 + a^2 b^2 - 12 \Rightarrow 5, 5^2 - 2P - 12, a^2 b^2 + a^2 b^2 - 1 \Rightarrow P_2 - 1$$

$$\Rightarrow 5^2 - 2S - 10 = 0 \Rightarrow S = 5 \rightarrow d \Rightarrow a^2 b^2 = 5d \checkmark$$

(2) - 10