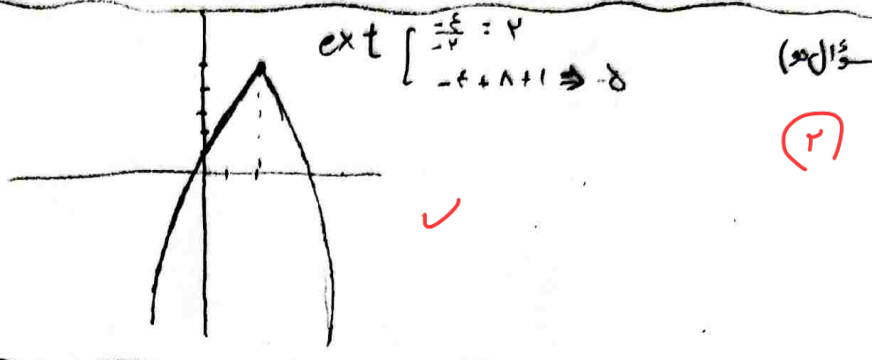
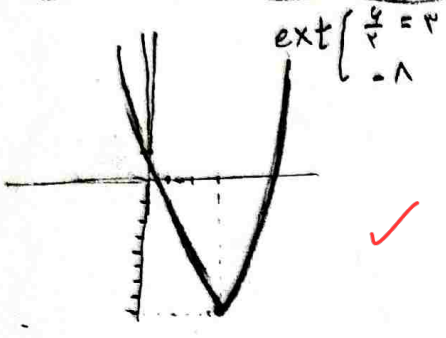


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ا) ext $\begin{cases} x = \frac{-b}{2a} = \frac{-4}{2} = -2 \\ y = \frac{-\Delta}{4a} = -1 \end{cases}$ min

ب) ext $\begin{cases} x = \frac{-b}{2a} = \frac{-4}{-2} = 2 \\ y = \frac{-\Delta}{4a} = \frac{-4}{-2} = 2 \end{cases}$ max



$x^2 - 5x + p \rightarrow x^2 - x - 2 = 0 \rightarrow B^r = B + 2$
 $a^r = a + 2 \rightarrow I$

$f(a^r) + k(a^r) - 9(a) - 2 = 0$

$f(a+2) + k(a+2) - 9a - 2 = 0$

k = -3

$f(x^2) + \Delta x + K a + 2K - 9a - 2 = 0 \rightarrow f(3x) + 4 + kx + 2k \rightarrow 3(x+2) + k(x+2) \rightarrow (3+k)(x+2) = 0$

$(\sqrt{\alpha} - \sqrt{\beta})^2 = (1) \rightarrow \alpha + \beta - 2\sqrt{\alpha\beta} = 1 \rightarrow (m - 2\sqrt{m})^2 = (1) \xrightarrow{\sqrt{m}=m} 3m^2 - 2m - 1 = 0$

$\alpha\beta = m \quad \alpha + \beta = 2m$

$x^2 - 2m - 3 \begin{cases} (m-3) \rightarrow \frac{3}{m} \rightarrow (1 = m \text{ جو } \rightarrow m = 1 \\ (m+1) \rightarrow \frac{-1}{m} = m \text{ جو } \rightarrow m = -1 \end{cases}$

$\frac{c}{a} = \frac{-m}{2} = \frac{-1}{2}$

$\frac{\sqrt{\Delta}}{|a|} \Rightarrow \frac{\sqrt{(m+2)^2 - 4m}}{2} \Rightarrow \frac{m-2}{2}$

سول نمبر $\frac{-b}{2a} = \frac{m}{2} \begin{cases} m=2 \rightarrow \frac{2}{2} \\ m=-1 \rightarrow \frac{-1}{2} \end{cases}$

$\frac{\sqrt{m-2} \times m}{2 \times 2} = \frac{3}{2} \rightarrow m^2 - 2m - 3 \rightarrow (m-3)(m+1) \begin{cases} m=3 \\ m=-1 \end{cases}$

$\frac{-\Delta}{4a} \Rightarrow \frac{1 - 4a^2}{-4a} = \frac{1}{a} \Rightarrow 1 - 4a^2 = 4a \rightarrow 4a^2 + 4a - 1 = 0 \rightarrow 4a^2 - 4a - 1 = 0$

$a = \frac{-4 \pm \sqrt{16 + 16}}{8} \Rightarrow \frac{-4 \pm 4\sqrt{2}}{8} \Rightarrow \begin{cases} a = \frac{4\sqrt{2}}{8} = \frac{\sqrt{2}}{2} \\ a = \frac{-4}{8} = -\frac{1}{2} \end{cases}$

یک مقدار قابل قبول است چون
 a باید مثبت باشد!

اختلاف
 عدد صحیح
 برابر $\rightarrow \frac{\sqrt{(a+1)^2 - 4a}}{1} = \frac{\sqrt{(a+1)^2 - 4a}}{1} = 2$

$|a - b| \Rightarrow 21$

$f = (a-1)^2 \rightarrow a=3 \quad 100 - 4b = f \rightarrow b=24$

سوال هفت 2



$$A_{\text{gen}} S \left\{ \begin{array}{l} \frac{-a}{-r_0 a} \Rightarrow \left(\frac{1}{r} \right) \\ y = \frac{-a}{r} + \frac{r_0 a}{r} + \frac{\Delta}{r} \rightarrow \frac{a + \Delta}{r} \Rightarrow -1 \end{array} \right.$$

$$\frac{a + \Delta}{r} = \frac{b}{r} - \frac{b}{r} - 1 \Rightarrow a = -1r \quad \checkmark$$

(2) سؤال

$$y = +1r_0 x^2 - 1r_0 x + r$$

$$\text{قيد ان} \rightarrow r = -rb \rightarrow \boxed{b = -r} \quad \checkmark \quad -r + 1r \rightarrow r \checkmark$$

$$y = r_0 b x^2 - b x = 1$$

$$\alpha, \beta \rightarrow \frac{b}{r_0 \alpha}$$

$$y = r_0 \alpha x^2 + r_0 x + \beta \quad \left\{ \begin{array}{l} s = \frac{-b}{a} = \frac{-r_0}{r_0 \alpha} \\ p = \frac{c}{a} = \frac{\beta}{r_0 \alpha} \end{array} \right.$$

$$\beta > \alpha$$

(2) سؤال

$$\alpha \times \beta = \frac{\beta}{r_0 \alpha} \Rightarrow r_0 \alpha^2 = 1 \Rightarrow \alpha = \pm \frac{1}{r_0}$$

$$r_0 x \rightarrow -r_0 x^2 + r_0 x + 1$$

$$\alpha + \beta = \frac{-r_0}{r_0 \alpha} \quad \left\{ \begin{array}{l} -\frac{1}{r_0} + \beta = \frac{r_0}{r_0} \rightarrow \beta = 1, \alpha = -\frac{1}{r_0} \quad \overline{00} \\ \frac{1}{r_0} + \beta = \frac{-r_0}{r_0} \rightarrow \beta = -1, \alpha = \frac{1}{r_0} \quad \overline{00} \end{array} \right.$$

$$\text{ext} \left\{ \begin{array}{l} \frac{-r_0}{-r_0} = \oplus \\ -r_0 + 1r_0 + 1 = \oplus \end{array} \right. \quad \checkmark \text{سؤال}$$

$$a + b = a' + b' - 1r \rightarrow s = s' - 2p - 1r$$

$$\Rightarrow s' = s' - 2s + r - 1r \rightarrow$$

(2) سؤال

$$a \cdot b = a + b - 1 \rightarrow p = s - 1$$

$$\Rightarrow s' - 2s - 1 = 0 \rightarrow (s - 1)(s + 2) = 0$$

$$\underline{a + b = 0}$$

$$\overline{0000} \checkmark$$

$$\rightarrow s = -2 \quad \overline{0000}$$