

Subject:

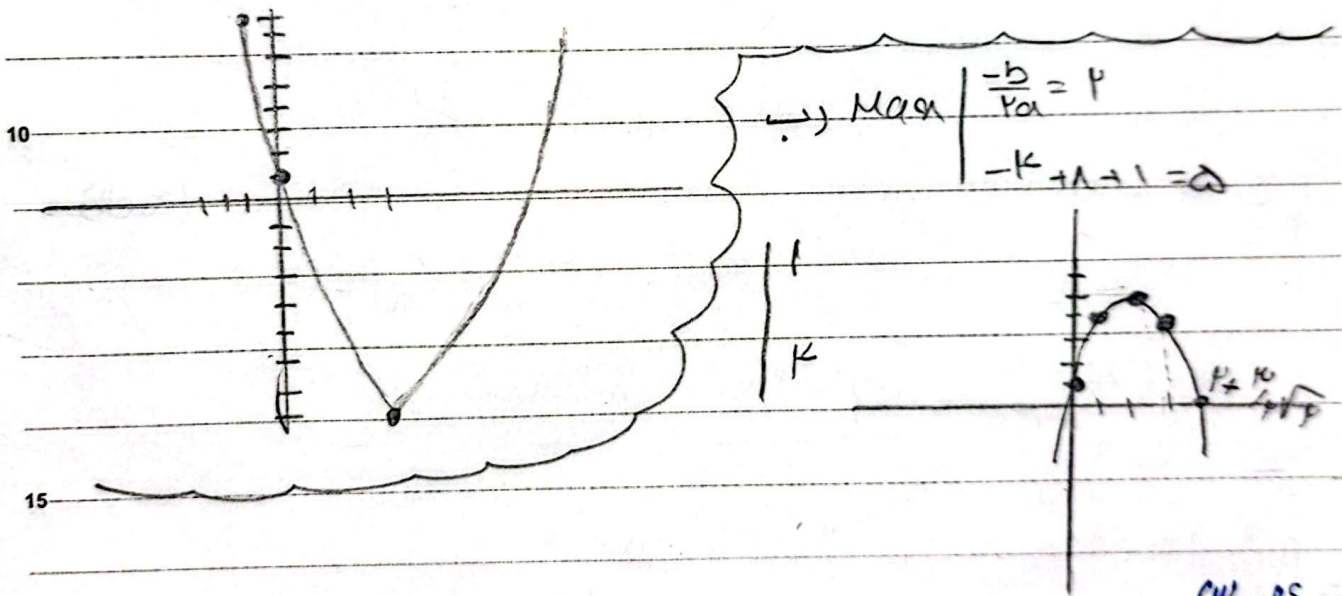
Year :      Month :      Day :      ( )

ورقة حالي اولى  
سؤال ١

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

ب) ext  $\rightarrow$  Max  $\left| \begin{array}{l} -\frac{b}{2a} = \frac{-10}{-k} = \frac{10}{k} \\ -P\left(\frac{10}{k}\right) + \frac{10}{k} - 2 = \frac{-4 + 1k - k}{k} = \frac{-4 + 1k - k}{k} = \frac{-4}{k} \end{array} \right.$

ج) Min  $\left| \begin{array}{l} -\frac{b}{2a} = \frac{9}{2} = 10 \\ 4 - 1k + 1 = -k \end{array} \right. \quad \left| \begin{array}{l} -1 \\ k \end{array} \right. \quad \left| \begin{array}{l} 0 \\ 1 \end{array} \right.$



$ax^2 + bx + c = 0 \quad ax^2 - ax - p = 0$   
 $kax^2 + kax^2 + kax - p = ax^2 - ax - p \rightarrow kax^2 + kax^2 - kax - kax - p + p = 0$   
 $kax^2 + ax^2(k-1) - kax = 0 \Rightarrow ax(kax^2 + a(k-1) - k) = 0$   
 $20 \Rightarrow kax^2 + a(k-1) - k = 0 \Rightarrow kax^2 + a(k-1) - k = ax^2 - ax - p$   
 $kax^2 + a(k) - a = 0 \Rightarrow kax^2 + a(k) - a = ax^2 - ax - p$   
 $pax^2 - a(k+1) - k = ax^2 - ax - p \Rightarrow ax^2 + a(k+p) - p = 0 \quad (ax^2 - ax - p)$   
 $a'' = 1 \Rightarrow k+p \Rightarrow k = -p$

سؤال ٢

$$\alpha^p = \frac{10}{m} \alpha + m \quad \alpha + \beta = 10m, \quad \alpha\beta = m \quad (\text{فدال 3})$$

$$(\sqrt{\alpha} - \sqrt{\beta})^p = 1 \Rightarrow \alpha + \beta - p\sqrt{\alpha\beta} = 1$$

$$\frac{10}{m} m - p\sqrt{m} = 1 \quad \sqrt{m} = t \quad \frac{10}{t^p} - pt - 1 = 0 \quad (\text{س 1}) \quad t^p - pt - \frac{10}{t} = 0$$

$$(t - 10)(t + 1) = 0$$

$$t = -\frac{1}{10} \quad \text{or} \quad t = 10 \quad \leftarrow \quad t = \frac{10}{t^p} \quad t = -\frac{1}{10}$$

$$\sqrt{m} = 1 \Rightarrow m = 1$$

$$p \times \frac{10}{m} - m - 1 = 0 \Rightarrow p \times 10 - 1 - 1 = 0$$

$$\text{modulo} = \frac{c}{a} = \frac{-1}{10}$$

$$g = \frac{10}{p} - (m+p) \alpha + m$$

$$a + b + c = 0$$

(س 2) س 3

$$\frac{m-p}{p}$$

$$g = \frac{10}{p} - \frac{c}{a} = \frac{10}{p}$$

$$m \times \left( \frac{m}{p} - 1 \right) = \frac{m^p - pm}{p} = \frac{m^p - pm}{p} = \frac{10}{p}$$

$$m^p - pm = 10 \Rightarrow m^p - pm - 10 = 0 \Rightarrow (m - 10)(m + 1) = 0$$

$$g = \frac{10}{p} - m \alpha + 1 \rightarrow \frac{10}{p} - m \alpha + 1 = \frac{-b}{ka} = \frac{10}{p}$$

$$g = \frac{10}{p} - m \alpha + 1 \rightarrow \frac{10}{p} - m \alpha + 1 = \frac{-b}{ka} = \frac{-1}{p}$$

$$-\frac{\Delta}{ka} = -\frac{b^2 - 4ac}{ka} = -\frac{4 - kd^p}{ka} = \frac{1}{\Lambda}$$

(س 4) س 5

$$-10p + pka^p = pna \Rightarrow -10 + \Lambda a^p = va$$

$$\Lambda a^p - va - 10 = 0$$

$$\Lambda = \frac{b^p - kaa}{ka} = \frac{10 + 2004 - 1000}{ka}$$

PAYCO

Subject:

Year: Month: Day: ( )

$$\alpha = \frac{-b \pm \sqrt{\Delta}}{2a} = \frac{1 \pm \sqrt{10}}{10} = \begin{cases} \rightarrow \alpha \\ \rightarrow -1/\alpha \end{cases} \Rightarrow \alpha \neq 0$$

$$|\alpha - \beta| = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{a^2 + 10a - 10}}{1} = \sqrt{a^2 - 10a + 1} = \sqrt{(a-5)^2} \quad (\text{سؤال 10})$$

5  $|a-1| \Rightarrow a-1 \Rightarrow a-1 < 0 \Rightarrow a < 1$   
 $|a-1| > 0$   
 $|a-1| < 0$

$$a^2 - (10)a + b = a^2 - 10a + b = 0$$

10  $\alpha' - \beta' = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{100 - 40b}}{1} \Rightarrow \sqrt{100 - 40b} = \sqrt{4} \Rightarrow 100 - 40b = 4$   
 $b = 24 \Rightarrow 40b = 960$

①  $a^2 - 10a + 10 = 0 \Rightarrow \frac{0}{a} = 10$   
 ②  $a^2 - 10a + 24 = 0 \Rightarrow \frac{0}{a} = 24$   
 $\Rightarrow 24 - 10 = 14$

15  $\frac{-a}{2(a-1)} = \frac{1}{2} \Rightarrow \frac{-a}{2a-2} = \frac{1}{2} \Rightarrow \frac{a+1}{a-1} = \frac{1}{1} \Rightarrow \frac{a+1}{a-1} = 1$   
 $\frac{a+1}{a-1} = 1 \Rightarrow \frac{a+1}{a-1} = \frac{1}{1} \Rightarrow \frac{a+1}{a-1} = 1$

$$y = 2a^2 - 10a + 1 \Rightarrow \frac{a+1}{a-1} = 2b \left(\frac{1}{2}\right)^2 - b \left(\frac{1}{2}\right) - 1 = \frac{a+1}{2} = \frac{b}{2} - \frac{b}{2} - 1$$

20  $a+1 = -1 \Rightarrow a = -2$   
 $y = -a^2 + a + 1 = -(-2)^2 + (-2) + 1 = -4 - 2 + 1 = -5$   
 $\frac{1}{4} - \frac{1}{2} + 1 = \frac{1}{4}$

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

$$b-a = -4 - (-2) = -2$$

$$a\beta = \frac{\beta}{\beta a} \Rightarrow a = \frac{1}{\beta a} \Rightarrow \frac{1 - \beta a^2}{\beta a} = 0$$

سؤال 9

$$\Rightarrow 1 - \beta a^2 = 0 \Rightarrow \beta a^2 = 1 \Rightarrow a^2 = \frac{1}{\beta} \Rightarrow a = \pm \frac{1}{\sqrt{\beta}}$$

$$a + \beta = \frac{-1}{\beta a} \Rightarrow \textcircled{1} a = \frac{1}{\beta} \Rightarrow \frac{1}{\beta} + \beta = \frac{-1}{\beta} \Rightarrow \beta = \frac{-\beta}{\beta} = -1$$

$$\textcircled{2} a = -\frac{1}{\beta} \Rightarrow \frac{-1}{\beta} + \beta = \frac{-1}{\beta} \Rightarrow \beta = \frac{\beta + 1}{\beta} \Rightarrow \beta = 1$$

$\beta > a \Rightarrow$   $\frac{1}{\beta} > \frac{1}{\beta}$  ,  $\beta = 1$  طابق

$y = -\omega a^2 + \epsilon a + 1$        $\text{Max} \left| \frac{-b}{2a} = \frac{-\epsilon}{-2\omega} = \frac{\epsilon}{2\omega} \right| \geq 0, \epsilon$   
 $-\omega(0,2)^2 + \epsilon(0,2) + 1 \geq 1$   
 $-0,1$  / السعر باصا اقل قدر

$$a + b = a^2 + b^2 - 1 \quad \text{سؤال 10}$$

$$ab = a + b - 1 \Rightarrow a + b = ab + 1$$

$$\frac{ab + 1}{a} = \frac{a^2 + b^2 - 1}{a} \Rightarrow a^2 + b^2 - ab - 1 = 0$$

$$(a+b)^2 - 1ab - 1 = 0$$

$$(a+b)^2 - 1ab - 1 = 0$$

$$\frac{1}{(a+b)^2} - 1 \cdot \frac{1}{(a+b)} - 1 = 0$$

$$t^2 - 1t - 1 = 0 \Rightarrow t^2 - 1t - 1 = 0 \Rightarrow (t - \omega)(t + \mu) = 0$$

$a + b = \omega$

