

(10)

β

المعادلة

i)  $\sqrt{m^2 - m + 1} \Rightarrow \text{ant} \left| \begin{array}{c} -\frac{b}{2a} \\ -\frac{\Delta}{4a} \end{array} \right| \begin{array}{c} (1) \\ (1, -1) \end{array}$

$$\begin{pmatrix} 1 \\ -1 \end{pmatrix}$$

-1

ii)  $-\sqrt{m^2 + m - 5} \Rightarrow \text{ant} \left| \begin{array}{c} -\frac{b}{2a} \\ -\frac{\Delta}{4a} \end{array} \right| \begin{array}{c} -(\frac{m}{-1}) \\ -\frac{(\frac{m}{-1})^2 - 5}{1} \end{array}$

$$\frac{m}{-1}$$

$$\frac{\frac{m}{-1}^2 - 5}{1}$$

-2

iii)  $m^2 - m + 1 \rightarrow \begin{array}{c|c|c|c} m & 1 & -1 & 0 \\ \hline y & -1 & 1 & 1 \end{array}$

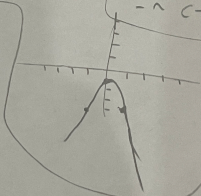
ant  $\left| \begin{array}{c} r \\ -n \end{array} \right|$

$$\begin{array}{c|c|c|c} m & 1 & -1 & 0 \\ \hline y & -1 & 1 & 1 \end{array}$$

c)  $-\sqrt{m^2 + m + 1} \rightarrow$

$$\begin{array}{c|c|c|c} m & 1 & -1 & 0 \\ \hline y & -1 & 1 & 1 \end{array}$$

$\alpha\beta = -2, \alpha + \beta = 1$   
 $\begin{cases} \alpha = r \\ \beta = -1 \end{cases}$



-3

$\Rightarrow -r + k + a - r = \frac{1}{-1} k + r_2 =$

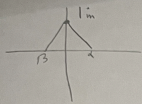
$$k_2 = -r$$

$\sqrt{a} - \sqrt{\beta} = 1 \Rightarrow \alpha + \beta - r\sqrt{\alpha\beta} = 1$

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

$\Rightarrow \sqrt{m} = 1 \Rightarrow \sqrt{m^2 - m - 1} = 0$

$$\frac{1}{a} = \frac{-1}{r}$$



$$g_n \frac{1}{v} \times (x - \beta) \times m$$

$$\frac{1}{\text{ارتفاع المثلث}} = \frac{\sqrt{\Delta}}{|a|}$$

مساوية (نقطة  $\beta, \alpha$ )

كل نقيض سوال باينه درست خواهد بود

$$\frac{\sqrt{\Delta}}{|a|} \left( m + \frac{1}{v} = \frac{m}{v} \right) \Rightarrow \frac{\sqrt{(m+v)^2 - 2(m)v}}{v} \times m + \frac{1}{v} = \frac{m}{v}$$

$$\sqrt{m^2 + 2mv + v^2 - 2mv} \times m = v \Rightarrow \sqrt{m^2 - 2mv + v^2} \times m = v \Rightarrow |m - v| \times m = \frac{v}{m}$$

$m > v \rightarrow m - v = m - v$   
 $m < v \rightarrow m - v = -(v - m)$   
 $m < v \rightarrow m - v = -m + v$

$\rightarrow m^2 \leq m - 1$   
 $g: m^2 - m + 1 \rightarrow m_{ent} = -\frac{b}{2a}$

$\Rightarrow \frac{m}{v} \sqrt{\frac{v}{m}} = \dots$

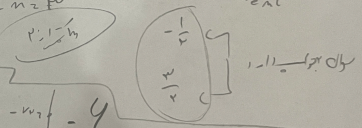
$\Rightarrow 0 < (m - v)(m - v) < m, m \leq v$

$\rightarrow m^2 - 2m + v < 0 \Rightarrow D < 0$

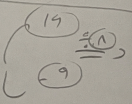
$m_2 = -1, m_1 = m + 1, m_{ent} = -\frac{1}{2}$

$\rightarrow -m^2 + 2m + v \rightarrow m_2 = -1, m_1 = m + v$

$\frac{-A \pm \sqrt{A^2 - 4ac}}{2a} = \frac{2a^2 \pm \sqrt{4a^2 - 4a^2 - 4a^2}}{2a} \rightarrow 2a \pm \sqrt{4a^2 - 4a^2 - 4a^2} = -4$



$4a^2 - 4a^2 - 4a^2 = 0 \Rightarrow a^2 - 4a - 4a^2 = 0 \Rightarrow (a - 4)(a + 4) = 0$



$\frac{\sqrt{\Delta}}{|a|} = v \Rightarrow \sqrt{a^2 + 2a + 1 - 4a} = v$

$\frac{\sqrt{a^2 - 2a + 1}}{1} = v \Rightarrow \frac{a - 1}{1} = v \Rightarrow a - 1 = v \Rightarrow a = v + 1$

$\frac{\sqrt{\Delta}}{|a|} = v \Rightarrow \sqrt{(v + 1)^2 - 4(v + 1)} = v \Rightarrow m^2 - 1 - m + 2v = 0$

$(v + 1)^2 - 4(v + 1) = v^2 + 2v + 1 - 4v - 4 = v^2 - 2v - 3 = (v - 3)(v + 1)$

$$\alpha + \beta = \frac{c}{rwa}, \quad \alpha \beta = \frac{b}{rwa} \Rightarrow rwa\alpha - rwa\beta = c \Rightarrow rwa\alpha^2 b = c$$

$$\Rightarrow rwa\alpha^2 = 1 \Rightarrow \alpha = \pm \frac{1}{\sqrt{rwa}} \Rightarrow rwa\alpha b = -c \Rightarrow rwa\alpha \frac{1}{\sqrt{rwa}} b = -c \Rightarrow b = -1$$

$$b \alpha \begin{cases} \rightarrow b = -1 \quad \times \\ \rightarrow b = 1 \quad \checkmark \end{cases} \Rightarrow \alpha = -\frac{1}{\sqrt{rwa}}, \beta = 1$$

(J)

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

$$\Rightarrow a^2 + a - 1 + b^2 + b - 1 = 0 \Rightarrow (a + \frac{1}{2})^2 - \frac{5}{4} + (b + \frac{1}{2})^2 - \frac{5}{4} = 0$$

$$\Rightarrow \begin{matrix} a \\ \checkmark \end{matrix} \begin{matrix} \alpha \\ \checkmark \end{matrix} \quad \begin{matrix} b \\ \checkmark \end{matrix} \begin{matrix} -r \\ \checkmark \end{matrix} \quad \frac{a + b + r^2}{\checkmark}$$