

$1) m = \frac{5x}{2m} \quad \frac{-2-2}{2m} \quad \frac{4}{1} \quad \frac{4}{1}$ $x = m(6x + 4) \rightarrow 2x - 2 = 4m + 4 \rightarrow 2x = 4m + 6 \rightarrow x = 2m + 3$	$1) \quad 2x - 4m - 1 = 2x - 4m - \frac{1}{m} \quad m = -3$ $x - 2 = m(m - 4) \rightarrow x - 2 = 3(-3) + 12 = -9 + 12 = 3$	۲
$2) \quad 2x - 4m + 1 \rightarrow x = \frac{1}{2}m + \frac{1}{2} \quad m = -\frac{1}{2}$ $m' = -\frac{1}{2} \Rightarrow -\frac{1}{2}x = x - 2 \Rightarrow m'(m - 4) = 2x - 4m + 1$	$2) \quad m \tan \alpha \rightarrow m \tan \frac{\pi}{4} = 5m$ $x - 2 = m(m - 4) \rightarrow x - 2 = 5m - 4 \rightarrow x = 5m + 2$	۱
$1) \quad \sqrt{5m^2 + 4x^2} \rightarrow \sqrt{(1-2)^2 + (3-1)^2}$ $\sqrt{1^2 + 2^2} = \sqrt{5}$	$2) \quad \frac{ a_1x + b_1m_0 + c }{\sqrt{a_1^2 + b_1^2}} = \frac{ f(m) + g(y) - c }{\sqrt{f^2 + g^2}}$ $\frac{ 1x + 6 - 3 }{\sqrt{1^2 + 0^2}} = \frac{10}{0} = 3$	۲
$1) \quad m + 3 \leq 5 \rightarrow m + 3 - 12 = 0 \rightarrow m = 9$ $f(m + 3) = 12 \rightarrow c' = 12$ $\frac{ -12 - c' }{\sqrt{1^2 + 9^2}} = \frac{ c' - 12 }{\sqrt{1^2 + 9^2}} \Rightarrow -12 - c' = c' - 12 $	$\frac{ c - c' }{\sqrt{a^2 + b^2}} = \frac{ c' - c'' }{\sqrt{a^2 + b^2}}$ $-12 - c' = c' - 12 \rightarrow -2c' = -24 \rightarrow c' = 12$ $f(m + 3) = 12 \rightarrow m + 3 = 12 \rightarrow m = 9$	۳
$2) \quad \frac{ c - c' }{\sqrt{a^2 + b^2}} = \frac{ -12 - 12 }{\sqrt{1^2 + 9^2}} = \frac{24}{\sqrt{10}} = \frac{24}{\sqrt{10}}$	$12 - c' = c' - 12 \rightarrow -2c' = -24 \rightarrow c' = 12$	۲
$1) \quad \frac{ 3m - 2x - 1 }{\sqrt{9 + 4}} = \frac{ 3m + 2 - 3 }{\sqrt{9 + 4}} \rightarrow 3m - 2x - 1 = 3m + 2 - 3 $ $3m - 2x - 1 = 3m + 2 - 3 \rightarrow -2x = -2 \rightarrow x = 1$	$2) \quad \frac{ 3m - 2x - 1 }{\sqrt{9 + 4}} = \frac{ 3m + 2 - 3 }{\sqrt{9 + 4}} \rightarrow 3m - 2x - 1 = 3m + 2 - 3 $ $3m - 2x - 1 = 3m + 2 - 3 \rightarrow -2x = -2 \rightarrow x = 1$	۴
$1) \quad 2x - 4m + 1 \rightarrow m = 2$ $x = 2m + 3 \rightarrow m' = -3$ $\tan \alpha = -1 = 1 \rightarrow \alpha = 45^\circ = \frac{\pi}{4}$	$\tan \alpha = \left \frac{m - m'}{1 + mm'} \right \Rightarrow \left \frac{2 - (-3)}{1 + (2)(-3)} \right = \left \frac{5}{-5} \right = 1$	۵

الف) $\sqrt{\Delta m^2 + \Delta E^2} = \sqrt{(1-0)^2 + (-1-1)^2} = \sqrt{1+4} = \sqrt{5} = 1.0 \checkmark$

ب) $m = \frac{m_1 + m_2}{2} \rightarrow \frac{1+0}{2} = 0.5$ $E = \frac{E_1 + E_2}{2} = \frac{-1+1}{2} = 0$

(2)

الف) $m_G = \frac{m_1 + m_2 + m_3}{3} = \frac{1-1-1}{3} = -\frac{1}{3}$

$E_G = \frac{E_1 + E_2 + E_3}{3} = \frac{1+1+1}{3} = 1$ $G = \frac{1}{-1/3} = -3 \checkmark$

(1,5)

ب) $\frac{1}{P} \begin{vmatrix} 1 & 1 & 1 \\ -1 & 1 & 1 \\ -1 & 1 & 1 \end{vmatrix} = \frac{1}{P} (1-1+1-1+1-1) = 0$ ~~فأنا~~
 ~~دقة!~~

الف) $-E = \frac{Pm+1}{(Pm-1)-E} \Rightarrow E = \frac{-Pm-1}{Pm-1} \checkmark$

ب) $E = \frac{-Pm+1}{-Pm-1} \Rightarrow E = \frac{-(Pm-1)}{-(Pm+1)} \checkmark$

(2)

ج) $m = \frac{P+1}{P-1} \Rightarrow m = \frac{P-1}{P-1} \Rightarrow E = \frac{-Pm+1}{-Pm-1} \checkmark$

د) $-E = \frac{-P+1}{-P-1} \Rightarrow E = \frac{P-1}{P+1} \checkmark$

الف) $m = \frac{P+1}{P-1} \Rightarrow E = \frac{Pm+1}{Pm-1} \Rightarrow E = \frac{P(\frac{P+1}{P-1})+1}{P(\frac{P+1}{P-1})-1} = \frac{P^2+1}{P^2-1} \checkmark$

ب) $m = \frac{P-1}{P+1} \Rightarrow E = \frac{Pm-1}{Pm+1} \Rightarrow E = \frac{P(\frac{P-1}{P+1})-1}{P(\frac{P-1}{P+1})+1} = \frac{P^2-1}{P^2+1} \checkmark$

ج) $m = \frac{P-1}{P+1} \Rightarrow E = \frac{Pm+1}{Pm-1} \Rightarrow E = \frac{P(\frac{P-1}{P+1})+1}{P(\frac{P-1}{P+1})-1} = \frac{P^2+1}{P^2-1} \checkmark$

د) $m = \frac{P+1}{P-1} \Rightarrow E = \frac{Pm-1}{Pm+1} \Rightarrow E = \frac{P(\frac{P+1}{P-1})-1}{P(\frac{P+1}{P-1})+1} = \frac{P^2-1}{P^2+1} \checkmark$
 جواب صفی بعد ...

الف) $\begin{cases} Pm + E = 1 \\ m - 0 = 1 \end{cases} \Rightarrow m = 1 \Rightarrow E = 1 - P$
 $19E = -1 \Rightarrow E = -\frac{1}{19} \checkmark$

ب) $m = -\frac{\begin{vmatrix} b & c \\ b' & c' \end{vmatrix}}{\begin{vmatrix} a & b \\ a' & b' \end{vmatrix}} \Rightarrow m = -\frac{\begin{vmatrix} 1 & 1 \\ 0 & 1 \end{vmatrix}}{\begin{vmatrix} 1 & 1 \\ 1 & 0 \end{vmatrix}} = -\frac{1}{-1} = 1$

$E = \frac{\begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix}}{\begin{vmatrix} 1 & 1 \\ 1 & 0 \end{vmatrix}} = \frac{0}{-1} = 0$

$$\begin{cases} n' = n - 2 \rightarrow n = n' + 2 \\ y' = y + 3 \rightarrow y = y' - 3 \end{cases} \quad y' - 3 = \frac{2(n' + 2) + 1}{n' + 2 - 3}$$

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الف

$$y' = \frac{5n' + 2}{n' - 1}$$

$$y' = \frac{7}{n'}$$

ب) متبہ مورد قبل