

اسلام: دهم زمستان

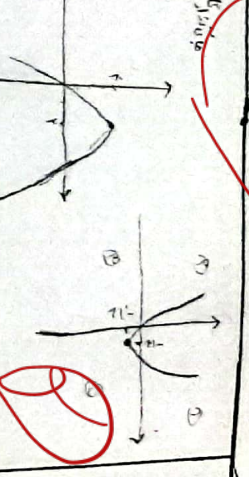
تاریخ: ۲۵ بهمن ۱۳۹۵

الف)  $3x^2 - 1x$   $C_{10}$   $5x^2 + 6x$   $C_{10}$   $\frac{1}{10} = \frac{y}{1} = \frac{1}{10}$   
 $y = \frac{1}{10}x - \frac{1}{10}$

ب)  $-x^2 + 4x$   $C_{10}$   $5x - 1$   $C_{10}$   $\frac{-1}{10} = \frac{y}{1} = \frac{1}{10}$   
 $y = \frac{1}{10}x - \frac{1}{10}$

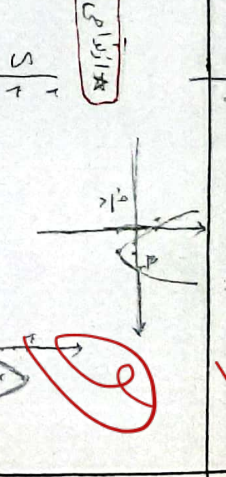
ج)  $-x^2 + 8$   $\rightarrow y = 3x$

د)  $2x^2 - 5x + 1$   $C_{11}$   $6x$   $C_{11}$   $\frac{1}{11} = \frac{y}{1} = \frac{1}{11}$   
 $y = \frac{1}{11}x - \frac{1}{11}$



الف)  $y = 2x^2 - 5x + 1$   $C_{11}$   $6x$   $C_{11}$   $\frac{1}{11} = \frac{y}{1} = \frac{1}{11}$   
 $y = \frac{1}{11}x - \frac{1}{11}$

ب)  $-x^2 + 4x - 1$   $C_{10}$   $5$   $C_{10}$   $\frac{1}{10} = \frac{y}{1} = \frac{1}{10}$   
 $y = \frac{1}{10}x - \frac{1}{10}$



الف)  $x^2 - x - 1 = 0$   $\alpha + \beta = 5$   $\frac{\alpha + \beta}{\alpha - \beta} = \frac{1}{\frac{1}{11}}$   $\frac{1}{11} = \frac{1}{11}$   
 جواب:  $\alpha = 3$   $\beta = 2$

ب)  $\alpha - \beta = \sqrt{5}$   $\frac{\alpha + \beta}{\alpha - \beta} = \frac{1}{\frac{1}{11}}$   $\frac{1}{11} = \frac{1}{11}$   
 جواب:  $\alpha = 3$   $\beta = 2$

ج)  $\alpha + \beta = 1 + 2 = 3$   $\alpha - \beta = \sqrt{5}$   $\frac{\alpha + \beta}{\alpha - \beta} = \frac{1}{\frac{1}{11}}$   $\frac{1}{11} = \frac{1}{11}$   
 جواب:  $\alpha = 3$   $\beta = 2$

الف)  $y = (x-2)(x^2 - 9x + 4)$   $x = 2$   $x^2 - 9x + 4 = 0$   $\Delta < 0$   
 $\Delta = 81 - 16 = 65 > 0$   $\alpha = \frac{9 + \sqrt{65}}{2}$   $\beta = \frac{9 - \sqrt{65}}{2}$

ب)  $2x^2 - 11x - 6 = 0$   $\alpha$  و  $\beta$   $2x^2 + \beta^2 - 2\alpha x = 0$   $\alpha^2 + \beta^2 = 14 + \frac{36}{\alpha}$   
 $S = \frac{-b}{a} = \frac{11}{2} = 5.5$   $P = \frac{c}{a} = \frac{-6}{2} = -3$

ج)  $2x^2 - 11x - 6 = 0$   $\alpha^2 + \beta^2 - 2\alpha x = 0$   $\alpha^2 + \beta^2 = 14 + \frac{36}{\alpha}$   
 $\alpha = 6$   $\beta = -1$

الف)  $A(2\alpha + 3, \alpha - x)$   $B(7 - 2\alpha, \alpha - 1)$   $S(b, b - r)$   $C = ?$

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الف)  $2x^2 + 3x - 2 = 0$   $\alpha = 1$   $\beta = 2$

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الف)  $y = \frac{1}{11}(x - 5)^2 + 1$

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