

$\lim_{x \rightarrow 0^+} f(x) = 0 \rightarrow f(0) = 0 \rightarrow 1 + a + b = 0 \rightarrow b = -1$
 $\lim_{x \rightarrow 0^-} f(x) = 0 \rightarrow \lim_{x \rightarrow 0^-} f(x) = \frac{-9C^2 \cos(x) \cdot \sin(x) + C^2 x}{x} = -9C^2 \cos(x) + C^2 = -1$
 $a = 1$

$y = x^2 - 1 \rightarrow$ تابع زوج
 دو حالت دارد
 سبب در تقاطع منقطع
 فریبند بودن
 $y' = 2x = 1 \rightarrow x = \frac{1}{2}$
 $y' = 2x = -1 \rightarrow x = -\frac{1}{2}$
 $A \left| \begin{matrix} 1 \\ -\frac{1}{2} \end{matrix} \right| \quad B \left| \begin{matrix} 1 \\ \frac{1}{2} \end{matrix} \right|$
 $m_1 = 1, m_2 = -1$

$M = \frac{\Delta y}{\Delta x} = \frac{1}{x} = y = f(x) = \frac{-x^2}{(x-1)^2} = y \rightarrow a = -1$
 $f(x) = \frac{-x^2}{(x-1)^2} = -1$

$y = x^2 + b \xrightarrow{x=1} 1 + b$
 $y = \frac{x+a}{a+1} \xrightarrow{x=1} \frac{a+1}{a+1} = 1$
 $a - b = -\frac{1}{x} - (-1) = \frac{1}{x}$
 $y' = 2x$
 $y' = \frac{1-a^2}{(a+1)^2}$
 $a^2 + fa + 1 = 0$
 $a = -1$

$f(x) = g(x) \rightarrow \sin x = \cos x$
 $f(x) = \cos x - \frac{1}{x} \sin x$
 $\frac{\sqrt{2}}{2} = \frac{\sqrt{2}}{2} \rightarrow x = \frac{\pi}{4}$
 $x = \frac{\pi}{4}$

$f'(x) = 9x^2 - 9x - 14$ $\rightarrow x=0$
 $\left. \begin{matrix} \text{المشتق} \\ \text{سوي} \end{matrix} \right\} \rightarrow \text{بالنسبة لـ } \frac{\Delta y}{\Delta x} = \frac{1 - (-14)}{-1 - 2}$
 $A|A \quad B|C$
 $f(x) = 9 \rightarrow 9x^2 - 9x - 14 = 0 \rightarrow \Delta > 0 \rightarrow \text{محلين حقيقيين}$
 $\frac{\Delta y}{\Delta x} = -9$

$y' = 4Kx^2 + (K+1)x$ $y'' = 8Kx + (K+1) = 0 \rightarrow x = -\frac{(K+1)}{8K}$
 $x < 0$ \rightarrow $\frac{R}{L} < 0$ \rightarrow $\frac{R}{L} < 0$ \rightarrow $\frac{R}{L} < 0$
 $\frac{R}{L} < 0$ \rightarrow $\frac{R}{L} < 0$ \rightarrow $\frac{R}{L} < 0$
 $\frac{R}{L} < 0$ \rightarrow $\frac{R}{L} < 0$ \rightarrow $\frac{R}{L} < 0$

$y' = 4x^2 + 4x + b$ $\rightarrow x=0$ $\rightarrow 4x^2 + 4x + b = 0$
 $y_{min} = -1 + a - b - 1 = -2 \rightarrow b - a = 2$
 $\rightarrow a = 9$
 $b = 11$
 $\frac{a}{b} = \frac{9}{11}$

$f(x) = 4x^2 + 4x + b$ $\rightarrow x=0$ $\rightarrow 4x^2 + 4x + b = 0$
 $f(x) = 0 \rightarrow C = 4$
 $f\left(\frac{-a}{2b}\right) = -\frac{a^2}{4b} + \frac{a^2}{4b} + \frac{a^2}{4b} = \frac{a^2}{4b}$
 $\frac{a^2}{4b} = -2 \rightarrow a^2 = -8b$

$f(x) = 4x^2 - 12x$ $\rightarrow x=0$
 $f(x) = 4x^2 - 12x$ $\rightarrow x=0$
 $C|A \quad D|B$
 $m_{AB} = 0$
 $m_{CD} = 0$
 \rightarrow زاوية