

$$8x^2 - 7x - 12 = 0 \quad x_0 = -1$$

$$y = -2 - 4 + 12 + 1 = 10$$

$$4(x^2 - x - 3) = 0 \quad x: 2 \rightarrow 4 - 2 + 12 + 1 = 15$$

$$(x-1)(x+1)$$

$$-1 \quad 2$$

+	-	+
max		min

$$-1 \quad 2 \quad \frac{1}{-1} \quad \frac{2}{-1} \quad \frac{4}{-1} = 4$$

$$AB \text{ binomial} \quad y = 2x - 1$$

6

قانون $\rightarrow f' = 2kx^2 + r(k+1)x \xrightarrow{\text{Pencil}} 4kx + r(k+1) = 0$ حج مقادير

$$x = -\frac{r(k+1)}{4k} = -\frac{k-1}{4k} < 0 \rightarrow -1 < k$$

$$y = \left(\frac{-k-1}{4k}\right)^2 r \left(\frac{-k^2-k}{4k} + \frac{k+1}{4k}\right)$$

$$\frac{r(k+1)}{4k} > 0$$

حج مقادير

7

$$kx^2 + yx + b$$

$$r - 1a + b = 0 \quad \begin{cases} a - b = r \\ a - b = -r \end{cases}$$

$$-1 + a - b - 1 = -2 \quad \begin{cases} a = 0 \\ b = 1 \end{cases}$$

$$\frac{a}{b} = \frac{0}{1}$$

8

$$kx^2 + yx + b$$

$$f(x) = kx^2 + yx + b \rightarrow \text{مقادير}$$

$$x(k + ya) = 0 \rightarrow -\frac{ya}{k} = x \rightarrow y = 0$$

$$C = F$$

$$\frac{ka^2}{k} + \frac{fa^2}{k} + F = 0$$

$$\frac{a^2 + fa^2}{k} = -F \quad a^2 = \frac{-Fk}{1} \rightarrow a = \frac{\sqrt{-Fk}}{1}$$

$$x = \frac{-r}{\sqrt{a}}$$

9

قانون $f(x) = kx^2 - 12x = kx(x^2 - 12/k)$

$-\sqrt{12/k}$	0	$\sqrt{12/k}$
-	+	-
min		min

$$A \mid -\sqrt{12/k} \quad B \mid \sqrt{12/k} \quad y = -F$$

$$9 - 12 + b$$

10

$$12x^2 - 12 = 0 \quad x^2 = 1 \rightarrow x = \pm 1 \quad < 1 \quad D \mid 0 \quad y = 0$$

$$\frac{m - m'}{1mm' + 11} = \frac{k}{1} \quad \text{حج مقادير}$$