

ا) $y = \underbrace{|x-2|}_{m=1} - \underbrace{|x-3|}_{m=2}$

$-m+2+m-3$	$ m-1 $	$ m-2 $	$m+1$
-1	-1	0	2

ب) $y = |x-2| + |x+1|$

$-m+2+m+1$	$ m-2 $	$ m+1 $	$m+3$
3	-1	0	2

← المناطق

$R_f = [-2, +\infty)$

$|x-2| - |x+2| \leq 1$

$-m+2+m+2$	$ m-2 $	$ m+2 $	$m+4$
4	-1	0	2

$\begin{cases} m+4 \leq 1 \rightarrow m \leq -3 \\ -m \leq 1 \rightarrow m \geq -1 \end{cases}$

$R_f = (-\infty, -1] \cup [-3, +\infty)$

$y = 3x - |2x+1| + |x|$

$3m - 2m - 1 - m$	$ m+1 $	$ m $	$m-1$
-1	0	1	0

$R_f = \mathbb{R}$

ا) $y = [x] + [3-x] \rightarrow [x] + [-x] + 3$

$R_f = \{2, 3\}$

ب) $y = 3x - [x]$

$\begin{cases} x^+ \rightarrow 3x \\ x^- \rightarrow 3x-1 \end{cases}$

$R_f = [-1, \infty)$

ا) $y = \sin^2 x - \sin x + 1 \rightarrow a \square^2 + b \square + c$

$R_f = [\frac{7}{4}, 3]$

ب) $y = \sin^2 x + \sin x + 1 \rightarrow \Delta^2 x = 0$

$R_f = [1, 3]$