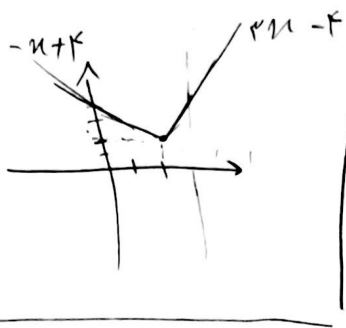


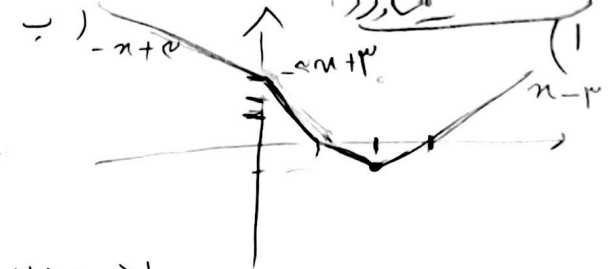
الف) $x + |2x - k|$
 $+x - 2x + k$
 $-x + k$



$R = [k/2, +\infty)$

$x \leq 0 \Rightarrow -x + k - x + 1 + x$
 $-x + k$

$R = [-1, +\infty)$



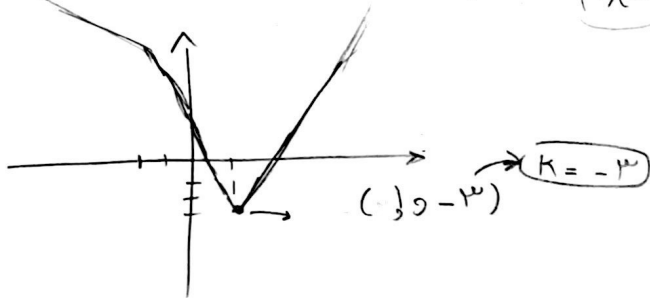
$k \geq x \geq 1$
 $-x + k + x - 1 - x$
 $-x + k$

$0 \leq x \leq 1 \Rightarrow -x + k - x + 1 - x$
 $-3x + k + 1$

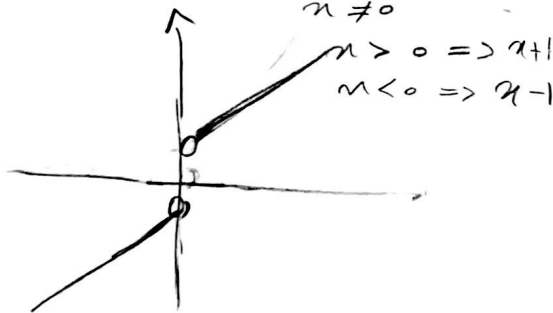
$|2x - k| - |x + k| = k$

$x > 0 \Rightarrow 2x - k = k$
 $2x - k = k$
 $2x = 2k$
 $x = k$

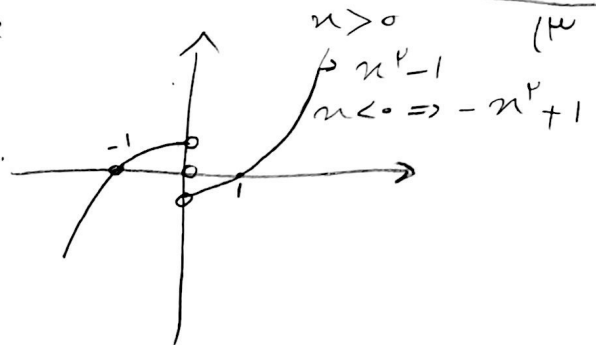
$x < -k \Rightarrow -2x + k = k$
 $-2x + k = k$
 $-2x = 0$
 $x = 0$



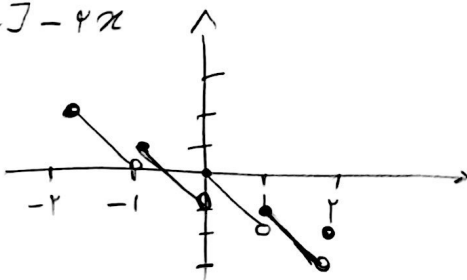
الف)



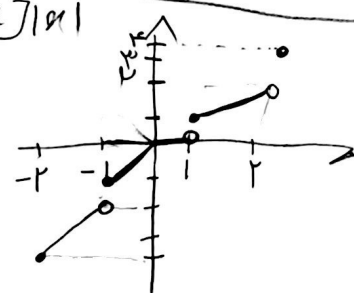
ب)



الف) $[x] - 4x$



ب) $[x] |x|$



$[0, k]$

$k \leftarrow (الف) (ب)$

$[0, k] \leftarrow c$

$(-1, 0]$

الف) $\rightarrow [-\sqrt{2}e + \sqrt{2}e]$ ب) $[-5, +5]$

ج) $[-\sqrt{2}e + \sqrt{2}e] \Rightarrow -\sqrt{2} \leq [e, \sqrt{2}e]$

الف) $\rightarrow \frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 1 \\ -1 & 1 \end{pmatrix} \Rightarrow R = \begin{pmatrix} \frac{1}{\sqrt{2}} & \frac{1}{\sqrt{2}} \\ -\frac{1}{\sqrt{2}} & \frac{1}{\sqrt{2}} \end{pmatrix}$

ب) $\rightarrow \frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 1 \\ -1 & 1 \end{pmatrix} \Rightarrow [1, 5]$

الف) $\frac{\sin^2 + c \cdot s^2}{1} + 3 \cos s^2 = R_F = [1, 4]$

ب) $\rightarrow \frac{2c \cdot s}{\frac{\sin}{1 \cdot \sin^2}} \Rightarrow \sin 2\pi \Rightarrow [-1, 1]$

الف) $\rightarrow [1, \frac{1}{2}]$ ب) $\rightarrow [\frac{1}{2}, 1]$

$\sin^2 \frac{1 - c \cdot s \cdot 2\pi}{1 + c \cdot s \cdot 2\pi} = \frac{1 - c \cdot s \cdot 2\pi}{1 + c \cdot s \cdot 2\pi} \Rightarrow R_F = \{0\}$

الف) $2x^2 + 5x - 4 \mid x+2$

ب) $x^2 + x + 1$

ب) $1 \leq x \leq 3 \rightarrow R = \{3\}$

ب) $R = \{3\}$