

الف) $x^2 - 1 \geq 0 \rightarrow (x-1)(x+1) \rightarrow x \in (-\infty, -1] \cup [1, +\infty)$
 $x^2 \geq 0 \rightarrow x \geq 1$ اشتراك $\rightarrow [1, +\infty)$

ب) $4 - 3x \geq 0 \rightarrow x \leq \frac{4}{3}$
 $4x - 3 \geq 0 \rightarrow x \geq \frac{3}{4}$ $\left\{ \left(\frac{3}{4}, \frac{4}{3} \right] \right\}$

فصل ۵
 ۱) $4x \geq 0 \rightarrow x \geq \frac{0}{4} \rightarrow \frac{0}{4} = 0 \rightarrow a = 0$
 $b - 3x \geq 0 \rightarrow x \leq \frac{b}{3} \rightarrow \frac{b}{3} = 2 \rightarrow b = 6$
 $\frac{b}{a} = \frac{6}{0} = \left(\frac{1}{0} \right)$

الف) $\frac{(x-2)(x+2)}{(x-3)(x+2)(x+1)}$
 $x^2 - 1 \geq 0 \rightarrow x^2 - 1 = (x-1)(x+1) \rightarrow x \in (-\infty, -1] \cup [1, +\infty)$
 $x^2 = 9 \rightarrow x = \pm 3$
 $x^2 = 4 \rightarrow x = \pm 2$

ب) صورت = 0 $\rightarrow \frac{x^2 - 2x^2 - 5x + 6}{(x-1)} \rightarrow (x-3)(x+2) \rightarrow \frac{(x-1)(2x)(x+1)}{(x+2)(x+1)(x+2)} \geq 0$

صحيح جواب $\rightarrow \frac{x^2 + 2x - 5x - 6}{(x+1)} \rightarrow (x-2)(x+3) \rightarrow x \in (-\infty, -3] \cup [2, +\infty)$

الف) $[x] - 3 \geq 0 \rightarrow [x] \geq 3 \rightarrow [x] \geq 3 \rightarrow [3, +\infty)$

ب) $2[x] - 5 \geq 0 \rightarrow [x] \geq \frac{5}{2} \rightarrow [x] \geq 2.5 \rightarrow [3, +\infty)$
 $x \in [3, +\infty) \rightarrow [x] \geq 3$

الف) $x^2 \geq 0 \rightarrow x \geq 0$
 $x+1 \geq 0 \rightarrow x \geq -1$
 $x^2 + 2x + 1 - (x+1)^2 + 3 \geq 0 \rightarrow 3 \geq 0$ صحيح
 $9 - x \geq 0 \rightarrow x \leq 9$
 اشتراك $\rightarrow [0, 9]$

ب) $[x] - 4 \geq 0 \rightarrow [x] \geq 4 \rightarrow [4, +\infty)$
 $2 - [x] \geq 0 \rightarrow [x] \leq 2 \rightarrow [2, +\infty)$
 اشتراك = $\emptyset$