

الف) $x^2 - 11x + 28 = 0$ $(x-4)(x-7) = 0$ $\begin{matrix} x=4 \\ x=7 \end{matrix}$

ب) $x^2 + 3x - 28 = 0$ $(x+7)(x-4) = 0$ $\begin{matrix} x=-7 \\ x=4 \end{matrix}$

الف) $5x^2 - 12x + 7 = 0 \rightarrow x^2 - 12x + 35 = 0$ $(x-5)(x-7) = 0$ $\begin{matrix} x=5 \\ x=7 \end{matrix}$

ب) $3x^2 - 10x + 7 = 0 \rightarrow x^2 - 10x + 21 = 0$ $(x-3)(x-7) = 0$ $\begin{matrix} x=3 \\ x=7 \end{matrix}$

الف) $2x^2 - 5x + 3 = 0$ $(2x-3)(x-1) \Rightarrow x=1$ $\Rightarrow x = \frac{3}{2}$

ب) $2x^2 + 5x + 3 = 0$ $(2x+3)(x+1) \Rightarrow x=-1$ $\Rightarrow x = -\frac{3}{2}$

ج) $2x^2 - 5x + 1 = 0$ $\Delta = 25 - 4 = 17$ $\frac{5 \pm \sqrt{17}}{4}$ $x = \frac{5 + \sqrt{17}}{4}$ $x = \frac{5 - \sqrt{17}}{4}$

د) $4x^2 + 11x + 9 = 0$ $\Delta = 121 - 144 = -23$ جواب ندارد

$x^2 - 3x - 2 = 0$

$S = + \rightarrow \frac{b}{a} = \frac{3}{1} = 3$
 $P = - \rightarrow \frac{c}{a} = \frac{-2}{1} = -2$

الف) $S^2 - 2P = 9 + 4 = 13$

ب) $S^2 - 3SP = 25 + 12 = 37$

الف) $|\frac{5}{7}| + |\frac{9}{14}| = |\frac{14}{14}|$

ب) $|\frac{9}{14}| - |\frac{1}{14}| = |\frac{8}{14}|$