

Problema: *DS0055* - Algebra letterale

Testo [*\[DS0055\]*](#) [\[2½★ 3🕒 2📖\]](#)

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|--------------------------------|------------------------------------|---------------------------------|
| (a) $x^2 - 3 x + 2 > 0$ | (e) $ x^2 - 3x > 2$ | (i) $ x^2 - 1 > x + 1 $ |
| (b) $x^2 - 5 x + 6 < 0$ | (f) $ x^2 - 2x - 3 \geq 2x + 1$ | (j) $(x - 3)(x + 1) > 2 x $ |
| (c) $x^2 - 3 x - 1 + 2 > 0$ | (g) $(x + 2)^2 - 5 x + 1 + 3 < 0$ | (k) $ 2x^2 - x > 2x^2 + x - 8$ |
| (d) $x^2 + x - 1 - 7 \leq 0$ | (h) $3x^2 + x \leq 4$ | |

Spiegazione

Svolgimento Qui di seguito le soluzioni degli esercizi proposti

(a) $x < -2 \vee -1 < x < 1 \vee x > 2.$

(b) $-3 < x < -2 \quad \vee \quad 2 < x < 3.$

(c) $x < \frac{-3-\sqrt{13}}{2} \quad \vee \quad x > \frac{-3+\sqrt{13}}{2}.$

(d) $-2 \leq x \leq \frac{-1+\sqrt{33}}{2}.$

(e) $x < \frac{3-\sqrt{17}}{2} \quad \text{o} \quad 1 < x < 2 \quad \text{o} \quad x > \frac{3+\sqrt{17}}{2}.$

(f) $(-\infty, \sqrt{2}] \cup [2 + 2\sqrt{2}, +\infty).$

(g) $\frac{-9 - \sqrt{33}}{2} < x < \frac{-9 + \sqrt{33}}{2}.$

(h) $-1 \leq x \leq 1.$

(i) $x < -1 \vee -1 < x < 0 \vee x > 2.$

(j) $x < -2 - \sqrt{7} \quad \vee \quad x > 2 + \sqrt{7}.$

(k) $x < 4.$
