

Es 27 pag 59

$$\begin{array}{c} es\ a \\ |3x| < 12 \\ 3x < -12 \text{ o } 3x > 12 \\ x < -4 \text{ o } x > 4 \end{array}$$

$$\begin{array}{c} es\ b \\ |x^2 - (x-3)^2 + x| < 2 \\ -2 < x^2 - (x-3)^2 + x < 2 \\ \left\{ \begin{array}{l} x^2 - (x-3)^2 + x > -2 \\ x^2 - (x-3)^2 + x < 2 \end{array} \right. \\ \left\{ \begin{array}{l} x^2 - x^2 - 9 + 6x + x > -2 \\ x^2 - x^2 - 9 + 6x + x < 2 \end{array} \right. \\ \left\{ \begin{array}{l} -9 + 7x > -2 \\ -9 + 7x < 2 \end{array} \right. \\ \left\{ \begin{array}{l} 7x > 7 \\ 7x < 11 \end{array} \right. \\ \left\{ \begin{array}{l} x > 1 \\ x < \frac{11}{7} \end{array} \right. \\ tabella \\ 1 < x < \frac{11}{7} \end{array}$$

es32pag59

$$\begin{aligned}
& \text{es } a \\
& \left| \frac{5}{x+2} \right| > 1 \\
& \frac{5}{x+2} < -1 \vee \frac{5}{x+2} > 1 \\
& \frac{5+x+2}{x+2} < 0 \vee \frac{5-x-2}{x+2} > 0 \\
& \frac{7+x}{x+2} < 0 * o \frac{3-x}{x+2} > 0 \\
& \quad (1) \\
& N > 0 \quad x > -7 \\
& D > 0 \quad x > -2 \\
& \text{tabella} \quad -7 < x < -2 \\
& \quad (2) \\
& N > 0 \quad x < 3 \\
& D > 0 \quad x > 2 \\
& \text{tabella} \\
& \quad 2 < x < 3
\end{aligned}$$

$$-7 < x < -2 \vee 2 < x < 3$$

$$\begin{aligned}
& \text{es } b \\
& \left| 1 + \frac{2-x}{x} \right| > 2 \\
& 1 + \frac{2-x}{x} < -2 \vee 1 + \frac{2-x}{x} > 2 \\
& 1 + \frac{2-x}{x} < -2 \vee 1 + \frac{2-x}{x} > 2 \\
& \frac{3x+2-x}{x} < 0 \vee \frac{-x+2-x}{x} > 0 \\
& \frac{2x+2}{x} < 0 \vee \frac{-2x+2}{x} > 0 \\
& \quad (1) \\
& N > 0 \quad x > -1 \\
& D > 0 \quad x > 0 \\
& \text{tabella} \\
& \quad -1 < x < 0 \\
& \quad (2) \\
& N > 0 \quad x < 1 \\
& D > 0 \quad x > 0 \\
& \text{tabella} \\
& \quad 0 < x < 1
\end{aligned}$$

$$-1 < x < 0 \vee 0 < x < 1$$