Übungsaufgaben Ungleichungen/Potenzen

$\frac{x+1}{x-2} \leq \frac{1}{6}$ $\quad L = \left\{x \in R \,\middle|\, -\frac{8}{5} \leq x < 2\right\}$

$\frac{3x-7}{x-1} \leq x-3$ $\quad L = \{x \in R \mid 1 < x \leq 2 \ \vee x \geq 5\}$

$2 + |x+3| < 3$ $\quad L = \{x \in R \mid -4 < x < -2\}$

$|x+3| + |x+4| < 9$ $\quad L = \{x \in R \mid -8 < x < 1\}$

$\frac{3^{\frac{1}{5}}}{3^{-\frac{4}{5}}}$ $\quad 3$

$\left(4^{\frac{2}{5}}\right)^{\frac{5}{4}}$ $\quad 2$

$\frac{28^5}{2^{11} * 7^4}$ $\quad 3{,}5$

$\sqrt{72} - \sqrt{8} - \sqrt{50}$ $\quad -\sqrt{2}$

$\frac{2^{\frac{6}{5}} * \sqrt[10]{a^6}}{\sqrt[5]{2a^6 * 2a^{-0,2}}}$ $\quad \frac{1}{\sqrt[5]{a^2}}$