NEROVNICE V SÚČINOVOM A PODIELOVOM TVARE

- **V SÚČINOVOM TVARE**

  a) $(x+2)(2x-1) \geq 0$

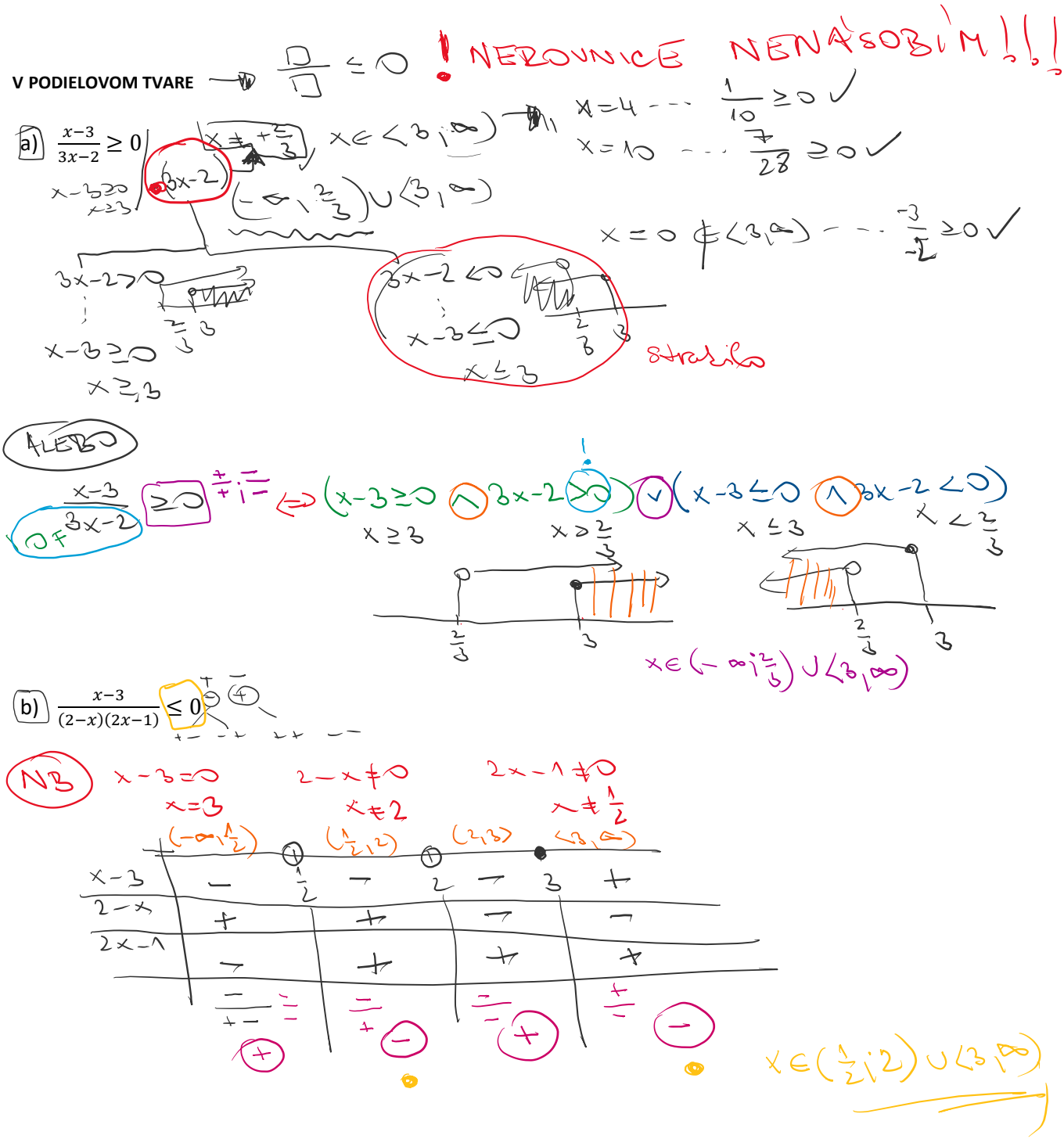
  b) $(x-\sqrt{5})(x+2)(1-3x) < 0$

  c) $2.\,(x-2)\sqrt{3}(x^2+1)(3-4x) \leq 0$

  d) $x^3 - 4x \geq 0$

  e) $x^2 < 3x + 10$

- **V PODIELOVOM TVARE**



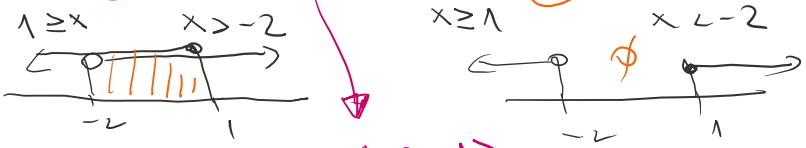
c) $\frac{(1-x)(3-x)}{(x^2-9)(x^2+3)} < 0$

d) $\frac{9}{x+2} \geq 3 \quad / -3$

$\frac{9}{x+2} - 3 \geq 0$ ✓

$\frac{9-3x-6}{x+2} \geq 0$

$\frac{3-3x}{x+2} \geq 0 \iff (3-3x \geq 0 \wedge x+2 > 0) \vee (3-3x \leq 0 \wedge x+2 < 0)$



$x \in \langle -2, 1 \rangle$

$\frac{2}{x-4} < 0 \iff x-4 < 0$

$x < 4 \quad x \in (-\infty, 4)$

$\frac{x-5}{x^2+3} \geq 0 \iff x-5 \geq 0$

$x \geq 5 \quad ; x \in \langle 5, \infty)$

e) $x \geq \frac{6}{5-x}$

f) $\frac{3}{x-2} + \frac{2}{x+1} \geq 0$