2a) $(x+3)(x-2) \geq 0$

$x=-3 \quad x=2$

$K=(-\infty;-3) \cup (2;\infty)$

		-3		2	
$x+3$	$-$	0	$+$		$+$
$x-2$	$-$		$-$	0	$+$
	$+$		$-$		$+$

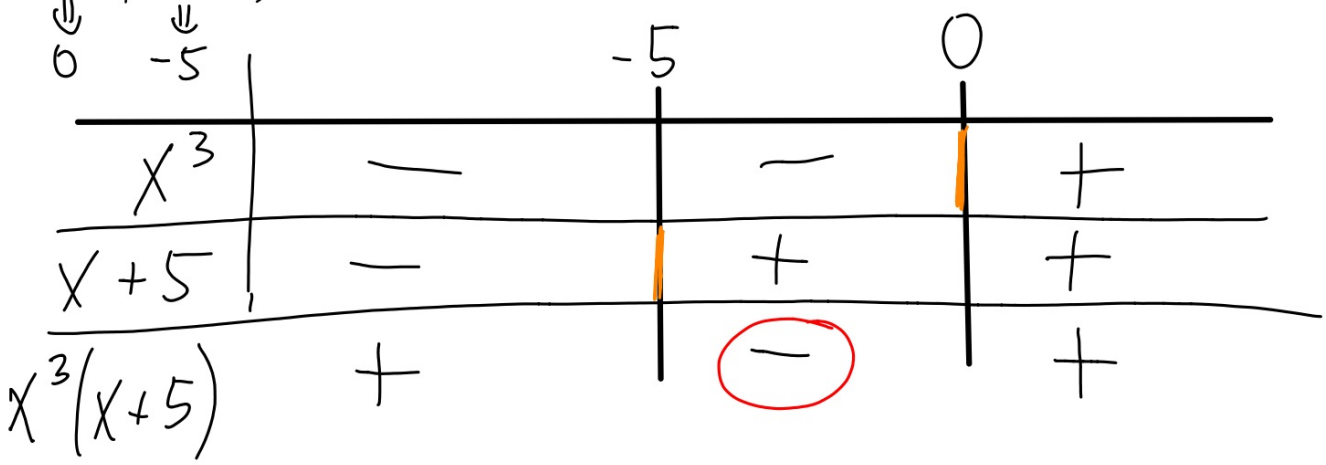
$$8x^3(x+5) \leq 0 \;/:8$$
$$x^3(x+5) \leq 0$$

1) nulové body
2) do tabulky
3) vyplň tabulku

$8x^3(x+5) \leq 0 \;/:8$

$x^3(x+5) \leq 0$

$K = \langle -5; 0 \rangle$



c) $-2(x+1)(x-\sqrt{2}) < 0 \quad / : (-2)$

$(x+1)(x-\sqrt{2}) > 0$

$x+1=0 \qquad x-\sqrt{2}=0$

$x=-1 \qquad x=\sqrt{2}$

$K = (-\infty; -1) \cup (\sqrt{2}; \infty)$

		-1		$\sqrt{2}$	
$x+1$	$-$		$+$		$+$
$x-\sqrt{2}$	$-$		$-$		$+$
	$+$		$-$		$+$

1) $(\ )(\ ) < 0$

2) soustava $x + 1 > 0$

$x < -3$

3) rovnice v součinu tvaru

$x^2 + 2x = -1$ $\qquad$ $x^2 + x = 0$

d) $\frac{2x}{5}(x^2+1) \geq 0$

$\Downarrow$

$x = 0$

$x^2 = -1$

nemá nulový bod

vždy kladné!

$\frac{2x}{5} \geq 0 \mid \cdot 5$

$2x \geq 0 \mid : 2$

$\boxed{x \geq 0}$

$K = \langle 0; \infty)$