1. Vypočítejte:

$|-7+|5-2|+|3-11|-|5-3\cdot|-5||=|-7+3|+|-8|-|5-3\cdot5|=4+8-|-10|=12-10=2$

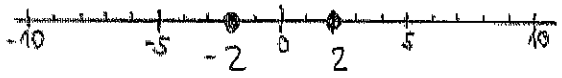
$|||-4|-5|-6|=||4-5|-6|=|1-6|=5$

$\left|\frac{3-|2+|-7||}{1+|-5|}\right|=\left|\frac{3-|2+7|}{1+5}\right|=\left|\frac{3-9}{6}\right|=|-1|=1$

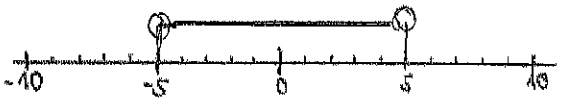
$4\cdot|-5+2|-|3-6|\cdot2=4\cdot3-3\cdot2=12-6=6$

2. Vyznačte na číselné ose všechna $x \in R$, pro která platí

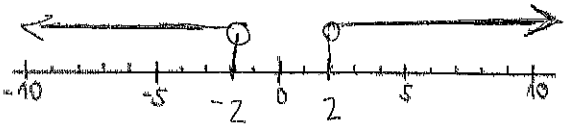
$|x|=2$



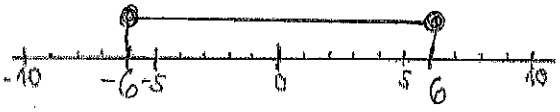
$|x|<5$



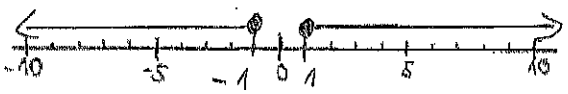
$|x|>2$



$|x|\leq 6$

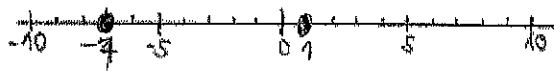


$|x|\geq 1$

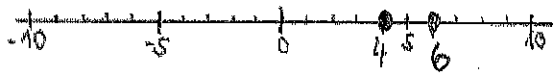


$|x|\leq 0$

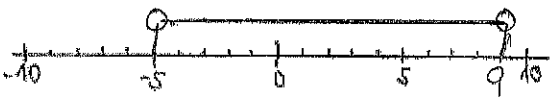
$|x+3|=4$ $x_0=-3$ $-3-4=-7$ $-3+4=1$



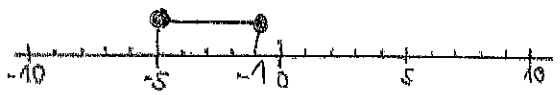
$|x-5|=1$ $x_0=5$ $5-1=4$ $5+1=6$



$|x-2|<7$ $x_0=2$ $2-7=-5$ $2+7=9$



$|x+3|\leq 2$ $x_0=-3$ $-3-2=-5$ $-3+2=-1$



$|x-3|\geq 3$ $x_0=3$ $3-3=0$ $3+3=6$

$|x+4|>5$ $x_0=-4$ $-4-5=-9$ $-4+5=1$