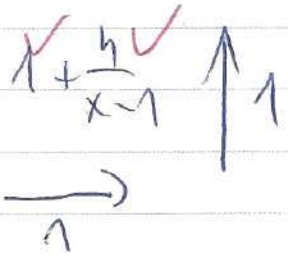
M-2-FCIE

(13)

(1) $f_1: y = \frac{x+3}{x-1} = (x+3):(x-1) = 1 + \frac{4}{x-1}$ ✓ ✓

$\ominus \underline{x-1}$ $(+)$

4



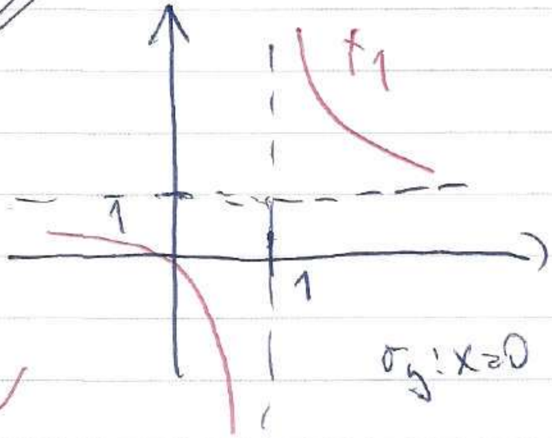
$D(f) = R - \{1\}$ ✓

$H(f) = R - \{1\}$ ✓

as.: $y = 1$ ✓

$x = 1$ ✓

$f_1': y = \frac{1}{x}$



GRAF ✓✓

$o_x: y = 0$ $\quad 0 = \frac{x+3}{x-1}$ ✓

$0 = x + 3$

$x = -3$ $\quad f_1 \cap o_x = \{[-3, 0]\}$ ✓

$o_y: x = 0$ $\quad y = \frac{0+3}{0-1} = \frac{3}{-1} = -3$ ✓

$f_1 \cap o_y = \{[0, -3]\}$ ✓

12b

(2) $f_2: y = |x+2| - 2x$

NB: $x = -2$

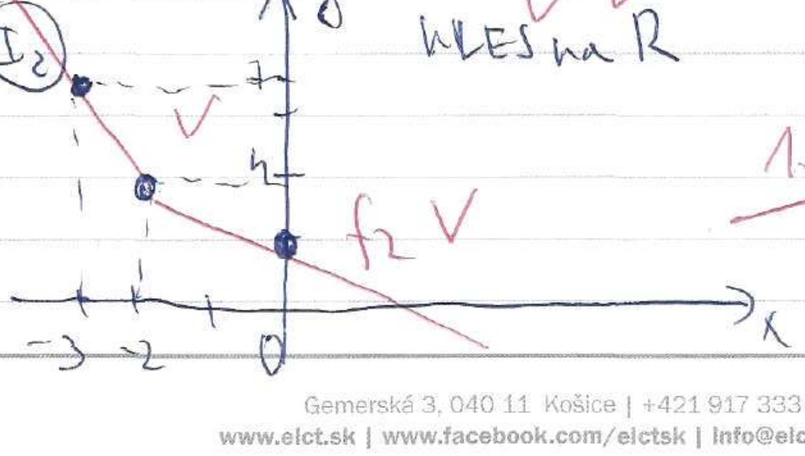
	$(-\infty, -2)$	$\langle -2, \infty)$
$\lvert x+2 \rvert$	$-x-2$ ✓	$x+2$ ✓
	(I1)	(I2)

(I1) $y = -x - 2 - 2x = -3x - 2$ ✓ $\quad [-3, 7]$ ✓

(I2) $y = x + 2 - 2x = -x + 2$ ✓ $\quad [-2, 4]$ ✓

$[0, 2]$

KLES na R ✓✓



10b

③

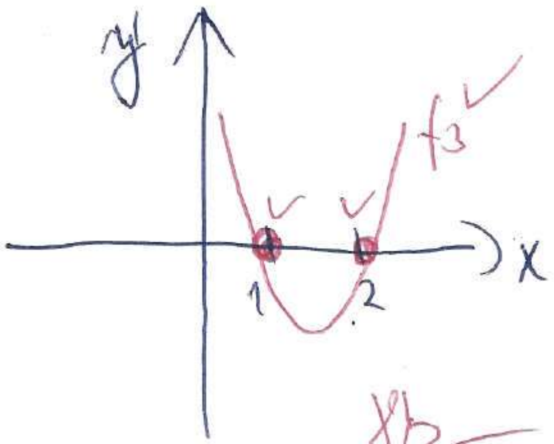
$f_3: y = |x^2 - 3x + 2|$

NB: $0 = x^2 - 3x + 2$ ✓

$0 = (x-2)(x-1)$ ✓✓

$x_1 = 2$ ✓

$x_2 = 1$ ✓



8b

30 - 27 ①

26,5 - 22,5 ②

22 - 13,5 ③

13 - 10,5 ④