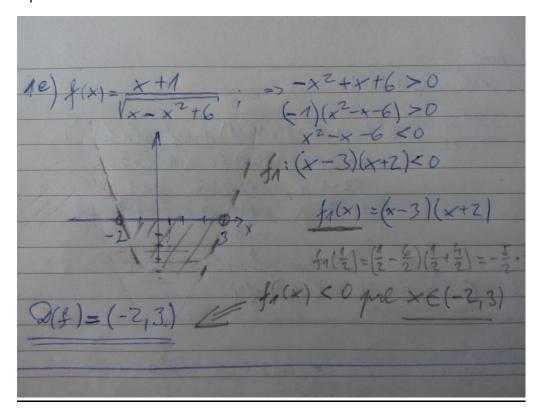
Cv-01-MA1: Def.OBORY

1.pr.:

Riesenia pr. O - Najst D(t):
a) $f(x) = \frac{\sqrt{x+1}}{\sin(2x)} + \log(1-x) = > \text{pre } \mathcal{D}(4) \text{ musi plate}$ $x+1 \ge 0 \text{ a } \sin(2x) \ne 0 \text{ a } 1-x>0$ $x \ge -1 \text{ a } 2x + 2x = 1-2$
X+120 1 sin(2x) +0 11-x>0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
/ (-1, 0); de mie 0; (-0,1)
a) D(f)=(-1,0)U(0,1) = <-1,1)-203

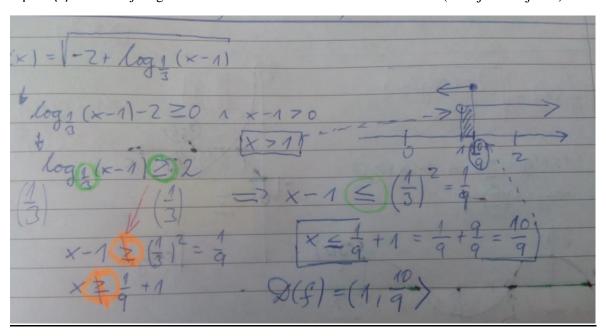
2.pr.:



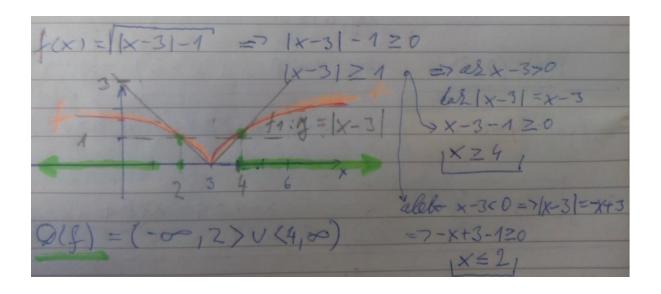
3.pr.a) b)

f(x)= (3-log_2(x); => 3-log_2(x) =0 1 x>0
log (x) ≤ 3 2 2 2 2 €////
D(f)=(0,8> <= [× < 8 1 × > 0] - filling
$(x) = \sqrt{-2 + \log_3(x-1)} = 7 \log_3(x-1) - 2 \ge 0 \land x - n > 0$ $\log_3(x-1) \ge 2 \qquad x > 1$
3 3 x-129= X210 1X71 10 9(f) = (10,8)

4.pr.: f(x) =: obsahuje logaritmickú funkciu so základom menším ako 1 (taká je klesajúca!)



5.pr.: s absolútnou hodnotou:



6.pr.: argumentom arcsin(x) je lineárna funkcia → pre D(f) dve nerovnice:

$$f(x) = \arcsin(3x-5)$$

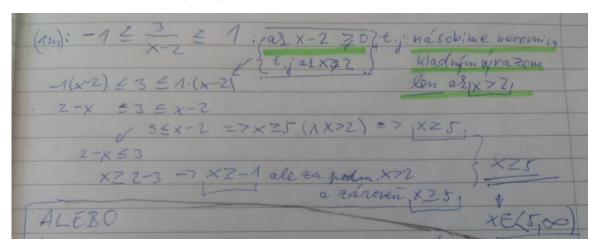
$$J(f): -1 \le 3x-5 \le 1 -7 \quad 3x-5 \le 1$$

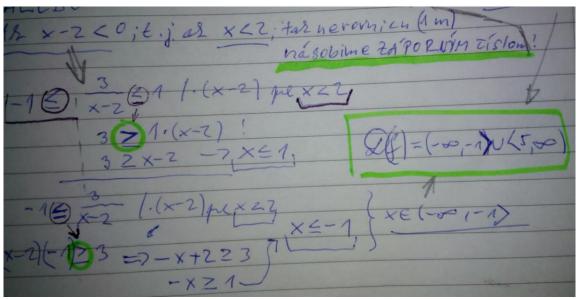
$$-1 \le 3x-5 \quad 3x \le 6$$

$$3x \ge -1+5 \quad x \le 2,$$

$$x \ge \frac{4}{3}: \quad Q(f) = (\frac{4}{3}, \frac{1}{2}) - \frac{4}{3}$$

7.pr.: $f(x) = arcsin\left(\frac{3}{x-2}\right)$





8.pr.:

