S=[-4,0] Michall Si:  $P_{Y,N} = \frac{1}{x^2 - 16}$ f(x) = x+4 = 1 x+4  $f(x) = \frac{x - 4}{(x - 4)(x + 4)}$ ODSTRANITELNA NESPOJITOST Dt= 8= 43/15 = (-0,-4) U(-4,4) U(4,+0) lim x-4 (F1) lim x (1-4) x-2+00 (x-4)(x+4) x-2+00 x (x-16) 1-1-00 X-4 F1) Min 1-4 1-1-00 X-16 x-7-00 x-16  $=\lim_{x\to +4^-}\frac{1}{x+u}=\frac{1}{x+u}$ lim x-4 / x+4 / x-7+4+ x+4 = 1 dochtiquijem -> 0 lim x-4 = li'm x4 x-7-4 = x-4- (x+4)(x-4) Protoze lin = l'in x-7+4- x-7+4+ = lim 1 = 1 = -00 +-2-4- x+4 = 0lin x-4 = lin x-4 = x-3-4+ x2-(6 x-3-4+ (x+4)(x-4) = lim 1 = 1 = +00/

Pt 2 
$$f(x) = \frac{\int x^2 + 2x + 5}{2 - 2x}$$

Finher signum:

Sign (x) =  $\frac{\int x^2 + 2x + 5}{2 - 2x}$ 

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Sign (x) =  $\frac{\int x^2 + 2x + 5$ 

Musíte být opatrnější při práci s nekonečny. Zejména pak, když vytýkáte z odmocniny, zodpovězte si otázku, proč platí následující (připomeňte si definici absolutní hodnoty):

 $\lim_{x\to -\infty} \sqrt{x^2} = \lim_{x\to -\infty} |x| = +\infty.$ 

SIN DESMOSU

sgn(x) =