ANA UZ 3.) f:R-R f(t) = {at, +<2 (b++= , +=2 lim f(t) = lim at = 2a lim f(+)= lim b+ = 1+3 = b+2 12 +>2+ => 201 = 6+2-12 $\lim_{t\to 2-} \frac{f(t)-f(2)}{t-2} = \lim_{t\to 2-} \frac{\alpha t-2\alpha}{t-2} = \lim_{t\to 2-} \frac{1-2}{t-2} = \alpha$ $\lim_{t \to 2+} \frac{f(t) - f(2)}{t - 2} = \lim_{t \to 2+} \frac{b + t^{\frac{3}{2}} - (b + 2\sqrt{2}')}{t - 2} = \lim_{t \to 2+} \frac{\sqrt{t^{\frac{3}{2}}} - 2\sqrt{2}'}{t - 2}$ $= \lim_{t \to 2+} \frac{(t^{\frac{1}{2}}) - (2\sqrt{2}')}{t - 2} = \lim_{t \to 2+} \frac{3}{2} + \frac{t}{2} - 0 = \lim_{t \to 2+} \frac{3}{2} \cdot \frac{2\sqrt{t}}{t} = \frac{3\sqrt{2}'}{2}$ $+ \Rightarrow 2t + t' - 2' + \Rightarrow 2t + 1 + t' - 0 + t \Rightarrow 2t$ $=> \alpha = \frac{3\sqrt{2}}{2}$ $2a = 6 + 2\sqrt{2}$ $\Rightarrow 2\frac{3\sqrt{2}}{2} = 6 + 2\sqrt{2} \Rightarrow 3\sqrt{2} = 6 + 2\sqrt{2}$ €> 6 = 3√2' - 2√2' €> 6 = √2 ges: $\frac{1}{3\sqrt{2}}$ +)' = $\frac{3\sqrt{2}}{2}$ $(\sqrt{2}' + \sqrt{2})' = \frac{3}{3} \cdot \sqrt{2} - 1 = \frac{3\sqrt{7}}{2}$ => f'(+) = {3\sqrt{2}, +<2 Da j'stelig und differenzierbar (3-VF), +22 ist of sklig differenzierbar und zwei mel differenzierbar auf R.