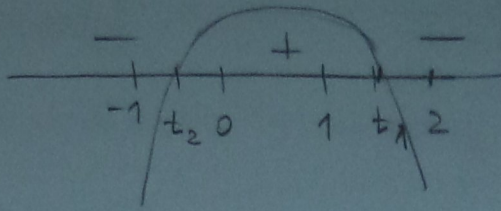


$$4 < \sqrt{17} < 5$$

$$1 < \frac{5}{4} < \frac{1+\sqrt{17}}{4} < \frac{3}{2} < 2$$

$$-1 < \frac{1-\sqrt{17}}{4} < -\frac{3}{4} < 0$$

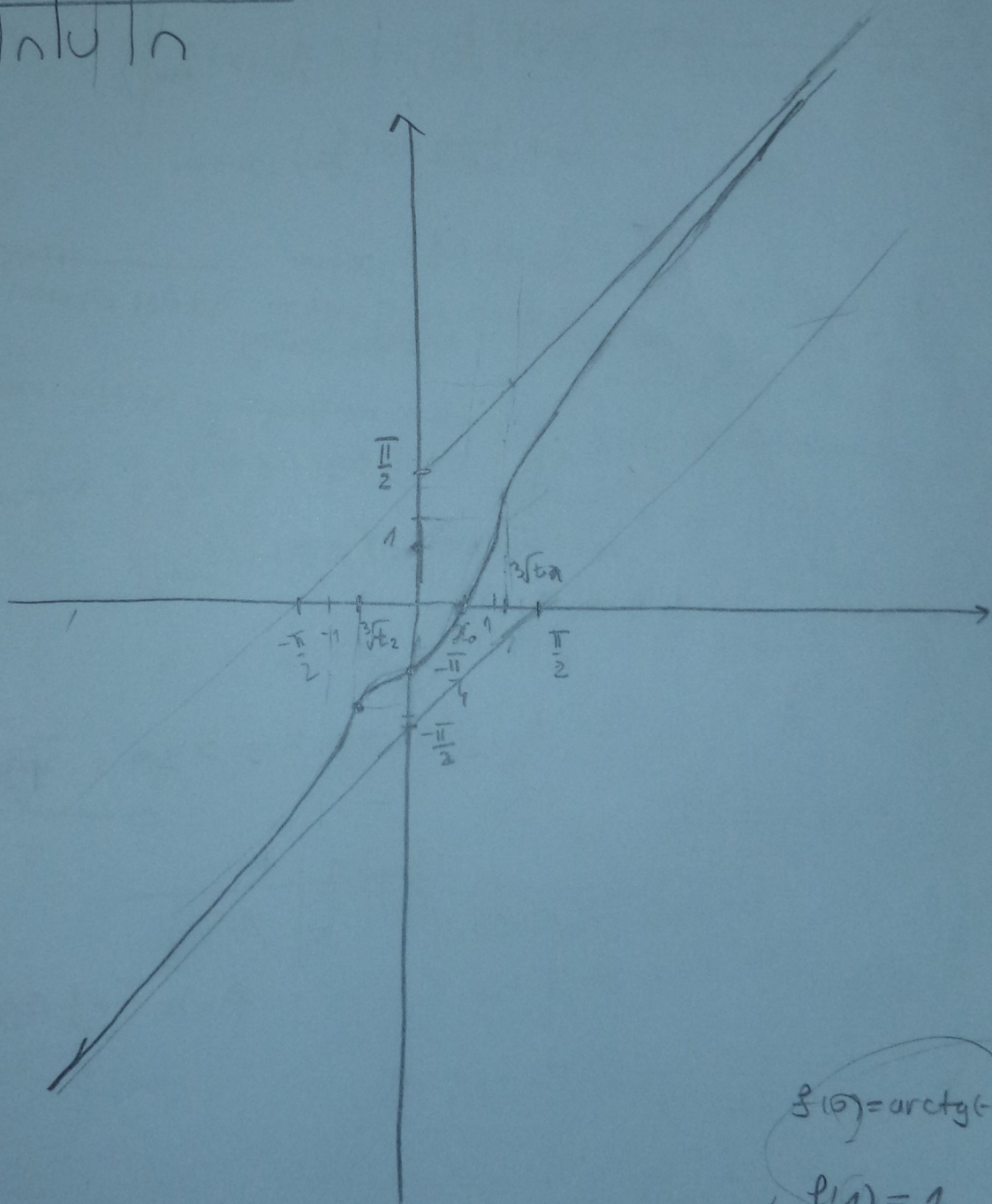


3a $x^3 \in (t_2, t_1)$ je $-2x^6 + x^3 + 2 > 0$ $x \in (\sqrt[3]{t_2}, \sqrt[3]{t_1})$

3a $x^3 \in (-\infty, t_2) \cup (t_1, \infty)$ je $-2x^6 + x^3 + 2 < 0$ $x \in (-\infty, \sqrt[3]{t_2}) \cup (\sqrt[3]{t_1}, \infty)$

x	$-\infty$	$\sqrt[3]{t_2}$	0	$\sqrt[3]{t_1}$	∞
$g(x)$	-	-	+	+	-
f''	+	-	+	-	
f	\cup	\cap	\cup	\cap	

analožne rečke: $0, \sqrt[3]{t_2}, \sqrt[3]{t_1}$



$$f(0) = \arctg(0) = 0$$

$$f(1) = 1$$

$$f(-1) = -1 - \arctg(-1)$$

$\exists x \in (0, 1) \quad f(x) = 0$