c) 
$$T = R^{+}$$
,  $At = \left(1 - \frac{1}{t}, 2 + \frac{3}{t}\right)$ 

① 
$$1 - \frac{1}{t} < 2 + \frac{3}{t}$$
 $\frac{4}{t} + 1 > 0$ 
 $\frac{t+4}{t} > 0$ 

$$T' = (-\infty, -4) \cup (0, +\infty)$$

1) 
$$x = \frac{5}{4} \Rightarrow 1 - \frac{1}{t} \langle \frac{5}{4} \rangle \wedge \frac{5}{4} \langle 2 + \frac{3}{t} \rangle \Rightarrow t \in (-\infty, -4) \cup (0, +\infty) \wedge t \in (-\infty, -4) \cup (0, +\infty) \Rightarrow \forall t \in (-\infty, -4) \cup (0, +\infty) ; t \in T' \Rightarrow \forall t \in T' ; x \in At.$$

$$\begin{cases}
1 - \frac{1}{t} \angle \frac{5}{4} \\
5 + 4 - 4t > 0
\end{cases}$$

$$\begin{cases}
\frac{5t}{4} \angle 2 + \frac{3}{t} \\
\frac{5t}{4} + 12 - 5t}
\end{aligned}$$

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\frac{5t}{4} \angle 2 + \frac{3}{t} \\
\frac{5t}{4} + 12 - 5t}
\end{aligned}$$

$$\begin{cases}
\frac{5t$$

$$\frac{\lambda}{\lambda} = \frac{5}{4} + \lambda \wedge \lambda \neq 0 \implies \exists t = -4 - \frac{|\lambda|}{2} \in T' \implies \exists t \in T'; At = \left(1 - \frac{1}{4} - \frac{|\lambda|}{2} + \frac{3}{4} - \frac{|\lambda|}{2}\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda| + \frac{3}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2} + |\lambda|\right) \implies \exists t \in T'; At = \left(1 + \frac{\lambda}{2}$$

$$0 \Rightarrow \exists t \in T'; \quad \begin{cases} \frac{5}{4} + \lambda & 2 + \frac{2}{8 - \lambda} \\ \frac{5}{4} + \lambda & 2 - \frac{6}{8 + \lambda} \end{cases} \Rightarrow \exists t \in T'; \quad x \notin At.$$

$$\begin{cases} \frac{5}{4} + \lambda & 2 + \frac{2}{8 - \lambda} \\ \frac{5}{4} + \lambda & 2$$

 $\forall x \in \mathbb{R} \implies \exists t \in T'; t = \frac{1}{|x|+2} > 0 \implies \exists t \in T'; At = (1-|x|-2, 2+3|x|+6) \implies -|x|-1 < x < 3|x|+8 \implies \exists t \in T'; x \in At.$ 

14) | 11a11 - 11a11 = 11a - 611 ?

at = a + (-0). Podle Kosinové věty.

112112 = 11a112 + 11-E112-211a11-11-E11 wsd



| 11 a 11 - 11 E 11 | 4 | 1 a - E 11 = | 1 a 11 = \ | 11 a 11^2 + | 1 - E 11^2 - 2 | 1 a | 1 \ | 1 \ | 2 \ > 0

- 1) 11all =0 v 11Bl =0 0 €0 plut
- 2) 11211 tO NIIBII tO

wsd-1 40

wid &1 to je pravda => | 11011 - 11811 | 6 110- 81).