Úloha 85
Podmínky řešitelnosti:

$$\left[\left(\alpha < \frac{\pi}{2}\right) \wedge \left(t_b \geq v_b\right)\right] \vee \left[\left(\alpha = \frac{\pi}{2}\right) \wedge \left(v_b < t_b\right)\right] \vee \left[\left(\frac{\pi}{2} < \alpha < \pi\right) \wedge \left(\frac{v_b}{\sin \alpha} < t_b\right)\right]$$

Počet řešení:

1, je-li $\left[\left(\alpha < \frac{\pi}{2}\right) \wedge \left(\frac{v_b}{\sin \alpha} \leq t_b\right)\right] \vee \left[\left(\alpha = \frac{\pi}{2}\right) \wedge \left(v_b < t_b\right)\right] \vee \left[\left(\frac{\pi}{2} < \alpha < \pi\right) \wedge \left(\frac{v_b}{\sin \alpha} < t_b\right)\right]$

2, je-li $\left(\alpha < \frac{\pi}{2}\right) \wedge \left(v_b < t_b < \frac{v_b}{\sin \alpha}\right)$