

№ 1.1.2

$$\alpha_1 = 44^\circ$$

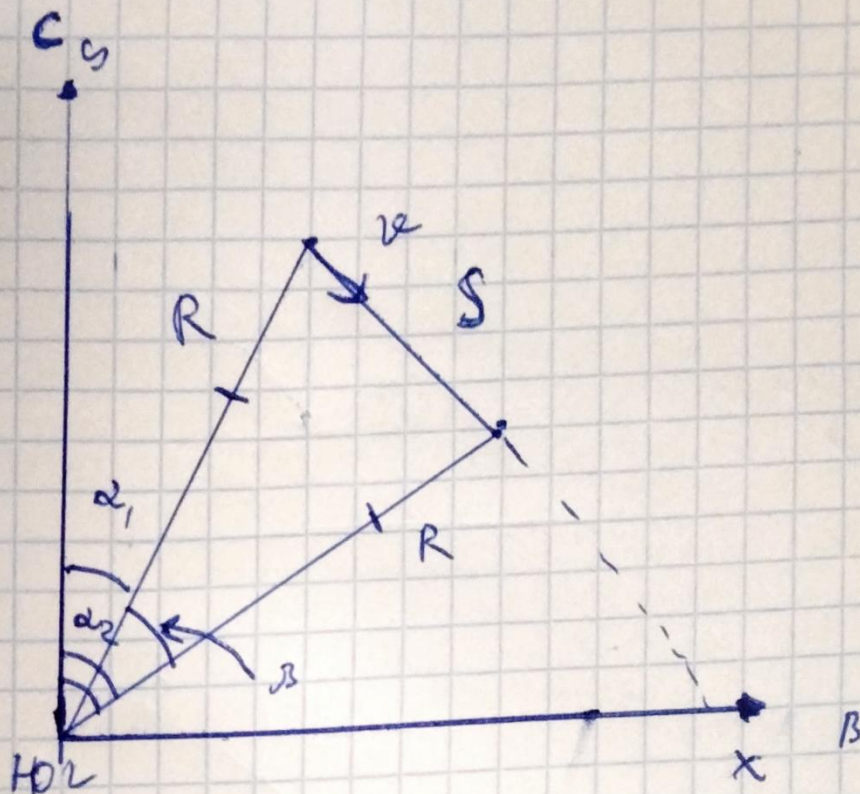
$$R_1 = R_2 = 100 \text{ km} = R$$

$$\alpha_2 = 46^\circ$$

$$\tau = 5 \text{ c}$$

$$v = \text{const}$$

$v = ?$



$$\beta = \alpha_2 - \alpha_1 = 2^\circ$$

По теореме косинусов

$$S^2 = R^2 + R^2 - 2R^2 \cos 2^\circ \approx 3.5 \text{ km}$$

$$v = \frac{S}{\tau} = 0.7 \text{ км/с}$$

Ответ: 0.7 км/с; мало - борман