

1.  $l_{min} = l \cos \frac{\alpha}{2} \approx 86,6 \text{ м.}$
2.  $S = \left(2 + \frac{\pi}{4}\right) v_0 t_0 \approx 278,5 \text{ м.}$
3.  $h = \frac{n_0 - n_{ж} \sin \alpha}{\beta} = 5 \text{ м.}$
4.  $R_{обш} = \frac{1}{2} R = 5,0 \text{ Ом.}$
5.  $t = \frac{t_K(t_1 + t_2 - t_H) - t_2 t_H}{t_1 + t_K - 2t_H} = 33,0^\circ \text{C.}$