

ТАБЛИЦА ЭКВИВАЛЕНТНЫХ БЕСКОНЕЧНО МАЛЫХ

Если $\alpha(x) \rightarrow 0$, то

$$1. \sin \alpha(x) \sim \alpha(x)$$

$$2. \operatorname{tg} \alpha(x) \sim \alpha(x)$$

$$3. \arcsin \alpha(x) \sim \alpha(x)$$

$$4. \operatorname{arctg} \alpha(x) \sim \alpha(x)$$

$$5. 1 - \cos \alpha(x) \sim \frac{[\alpha(x)]^2}{2}$$

$$6. e^{\alpha(x)} - 1 \sim \alpha(x)$$

$$7. a^{\alpha(x)} - 1 \sim \alpha(x) \cdot \ln a$$

$$8. \ln[1 + \alpha(x)] \sim \alpha(x)$$

$$9. \log_a[1 + \alpha(x)] \sim \frac{\alpha(x)}{\ln a}$$

$$10. \sqrt[n]{1 + \alpha(x)} - 1 \sim \frac{\alpha(x)}{n}$$