

Упростите

$$\frac{1 - \sin^2 \alpha}{\cos^2 \alpha}; \quad \frac{\cos^2 \alpha}{\cos^2 \alpha - 1}; \quad \frac{\cos^2 \alpha - 1}{1 - \sin^2 \alpha};$$

$$\sin^2 \alpha + \cos^2 \alpha + \operatorname{tg}^2 \alpha;$$

$$\operatorname{tg} \alpha \cdot \operatorname{ctg} \alpha + \operatorname{ctg}^2 \alpha;$$

$$\sin \alpha \cdot \operatorname{ctg} \alpha;$$

$$\operatorname{tg} \alpha \cdot \operatorname{ctg} \alpha - 1;$$

$$(1 - \sin \alpha) \cdot (1 + \sin \alpha)$$

$$1 - \sin^2 \alpha - \cos^2 \alpha$$

