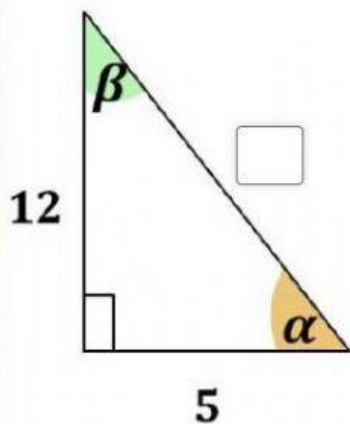


**Синус, косинус, тангенс и
котангенс острого угла**

Вправа 1



$$\begin{aligned} \sin \alpha &= \frac{\quad}{\quad} \\ \cos \alpha &= \frac{\quad}{\quad} \\ \operatorname{tg} \alpha &= \frac{\quad}{\quad} \\ \operatorname{ctg} \alpha &= \frac{\quad}{\quad} \end{aligned}$$

$$\begin{aligned} \sin \beta &= \frac{\quad}{\quad} \\ \cos \beta &= \frac{\quad}{\quad} \\ \operatorname{tg} \beta &= \frac{\quad}{\quad} \\ \operatorname{ctg} \beta &= \frac{\quad}{\quad} \end{aligned}$$

$$\sin^2 \alpha + \cos^2 \alpha = \quad$$

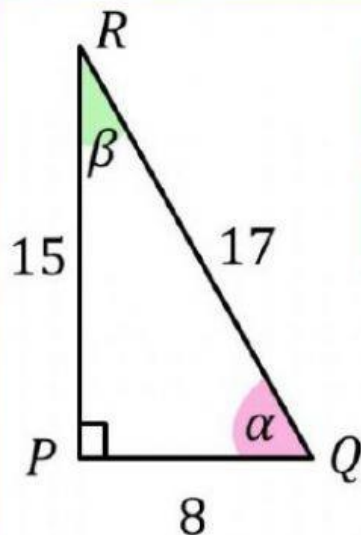
$$\operatorname{tg} \alpha \cdot \operatorname{ctg} \alpha = \quad$$

$$\sin^2 \beta + \cos^2 \beta = \quad$$

$$\operatorname{tg} \beta \cdot \operatorname{ctg} \beta = \quad$$

**Синус, косинус, тангенс и
котангенс острого угла**

Вправа 2



$$\sin Q = \frac{\quad}{\quad}$$

$$\cos Q = \frac{\quad}{\quad}$$

$$\operatorname{tg} Q = \frac{\quad}{\quad}$$

$$\operatorname{ctg} Q = \frac{\quad}{\quad}$$

$$\sin R = \frac{\quad}{\quad}$$

$$\cos R = \frac{\quad}{\quad}$$

$$\operatorname{tg} R = \frac{\quad}{\quad}$$

$$\operatorname{ctg} R = \frac{\quad}{\quad}$$

$$\sin(90^\circ - \alpha) = \quad$$

$$\cos(90^\circ - \alpha) = \quad$$

$$\operatorname{tg}(90^\circ - \alpha) = \quad$$

$$\operatorname{ctg}(90^\circ - \alpha) = \quad$$

$$\alpha + \beta = \quad^\circ$$

$$\beta = \quad$$