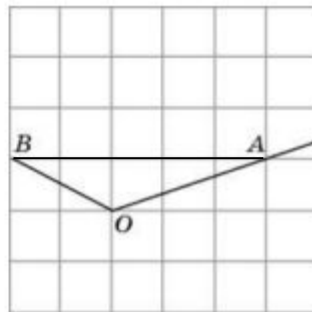


Найдите тангенс угла  $AOB$ .



$$BO = \sqrt{4^2 + 1^2} = \sqrt{5}$$

$$AO = \sqrt{3^2 + 1^2} = \sqrt{10}$$

$$\begin{aligned} \cos AOB &= \frac{OB^2 + AO^2 - AB^2}{2OB \cdot AO} = \\ &= \frac{5 + 10 - 25}{2\sqrt{5}\sqrt{10}} = -\frac{\sqrt{2}}{2} \Rightarrow \operatorname{tg} AOB = -1 \end{aligned}$$