

$$\begin{aligned}x^2 + z^2 &= a^2 \\x^2 + y^2 &= a^2\end{aligned}$$

$$\vec{f} = (0, 0, 1)$$

$$\begin{aligned}(0, 0, z) & \qquad \qquad \vec{g} = \\(x, y) &\end{aligned}$$

$$G$$

