

$$\begin{aligned}
 & \text{with}(\text{VectorCalculus}) : \\
 & f := \text{VectorField}\left(\left[\frac{y}{z}, \frac{x}{z}, -\frac{x \cdot y}{z^2}\right], \text{'cartesian'}[x, y, z]\right) \\
 & f := \left(\frac{y}{z}\right)\bar{e}_x + \left(\frac{x}{z}\right)\bar{e}_y + \left(-\frac{x \cdot y}{z^2}\right)\bar{e}_z \qquad (1)
 \end{aligned}$$

$$\begin{aligned}
 & \text{ScalarPotential}(f) \\
 & \frac{yx}{z} \qquad (2)
 \end{aligned}$$