

1 Vector Sketch (Curvilinear Coordinates)

Sketch each of the vector fields below.

(a) $\vec{K} = s \hat{s}$

(b) $\vec{L} = \frac{1}{s} \hat{\phi}$

(c) $\vec{M} = \sin \phi \hat{s}$

(d) $\vec{N} = \sin(2\pi s) \hat{\phi}$