

(EXAMPLE) [B-1-1]

Determine the following vector relations:

$$\nabla \times (\nabla \phi) =$$

$$\nabla \times (\nabla \times \vec{A}) =$$

Determine also the following vector relations:

$$\nabla(\phi\psi) =$$

$$\nabla \cdot (\phi \vec{A}) =$$

$$\nabla \times (\phi \vec{A}) =$$

(Note)

 $\phi, \psi = \text{scalar quantities}$ \vec{A} = vector quantity

Lined area for notes, consisting of multiple horizontal dashed lines.