$$| \int_{0}^{\infty} \alpha \left( \sqrt{\Delta} \phi \right) = 0$$

$$= \frac{1}{2} \left( \Delta \alpha E \right) - E \left( \Delta \alpha e \right)$$

$$= \frac{1}{2} \left( \Delta \alpha E \right) - E \left( \Delta \alpha e \right)$$

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$$= \frac{1}{2} \left( \Delta \alpha E \right) - \frac{1}{2} \left( \Delta \alpha e \right)$$

i) 
$$\nabla \left( p(|\vec{\alpha}|) \vec{\alpha} \right)$$

$$= \nabla p(|\vec{\alpha}|) \vec{\alpha} + p(|\vec{\alpha}|) \cdot \nabla \vec{\alpha}$$

$$= \frac{\partial \alpha}{\partial \alpha} + \frac{\partial \beta}{\partial \beta} + \frac{\partial \alpha}{\partial \beta} = \frac{\partial \alpha}{\partial \beta}$$

$$= \frac{\partial \alpha}{\partial \alpha} + \frac{\partial \beta}{\partial \beta} + \frac{\partial \alpha}{\partial \beta} = \frac{\partial \alpha}{\partial \beta}$$

$$= \frac{1}{2} (|\vec{\alpha}|) \cdot \frac{\partial \alpha}{\partial \beta} = \frac{1}{2} (|\vec{\alpha}|) \cdot \frac{1}{2} (|\vec{\alpha}|) \cdot \frac{1}{2} (|\vec{\alpha}|)$$

$$= \frac{1}{2} (|\vec{\alpha}|) \cdot \frac{1}{2} (|\vec{\alpha}|) \cdot \frac{1}{2} (|\vec{\alpha}|) \cdot \frac{1}{2} (|\vec{\alpha}|)$$

olu = 11(10)121 + 3. 1(12))