Questions for MACE-11010 Engineering Mechanics

Vector operations

Two vectors in Cartesian coordinate system,

$$A = (1,1,0)$$

 $B = (-1,1,0)$ (1)

Answer the following questions:

$$A + B = ? (2)$$

$$A - B = ? \tag{3}$$

$$2\mathbf{A} + 3\mathbf{B} = ? \tag{4}$$

$$A \cdot B = ? \tag{5}$$

$$A \times B = ? \tag{6}$$