Commutative and Distributive Properties

Using properties of the determinant, prove that

(a) $\boldsymbol{A} \times \boldsymbol{B} = -\boldsymbol{B} \times \boldsymbol{A}$;

(b) $\boldsymbol{A} \times (\boldsymbol{B} + \boldsymbol{C}) = \boldsymbol{A} \times \boldsymbol{B} + \boldsymbol{A} \times \boldsymbol{C}$;

(c) $\boldsymbol{A} \times (k\boldsymbol{B}) = (k\boldsymbol{A}) \times \boldsymbol{B} = k(\boldsymbol{A} \times \boldsymbol{B})$.

✓ Completed

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