Item Navigation

Vector Quadruple Product

Prove using vector triple products that the vector quadruple product satisfies

$$(\boldsymbol{A}\times\boldsymbol{B})\times(\boldsymbol{C}\times\boldsymbol{D})=((\boldsymbol{A}\times\boldsymbol{B})\cdot\boldsymbol{D})\boldsymbol{C}-((\boldsymbol{A}\times\boldsymbol{B})\cdot\boldsymbol{C})\boldsymbol{D}.$$

Completed

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