



LEWIS AND CLARK COLLEGE  
Department of Mathematical Sciences

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PUZZLE OF THE WEEK (3/2/2017 - 3/8/2017)

Let  $D$ ,  $E$  and  $F$  denote the midpoints on the sides  $BC$ ,  $CA$  and  $AB$  of the triangle  $\triangle ABC$ . Find, with proof, the value of

$$\vec{CF} \cdot \vec{AB} + \vec{AD} \cdot \vec{BC} + \vec{BE} \cdot \vec{CA}.$$

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- The only correct solutions of the Puzzle of the Week #6 were submitted by Leo DiGiosia and David Lovitz. Congratulations!
  - One possible complete solution of the Puzzle #6 is posted online. (Look for the Puzzle of the Week announcements on the departmental webpage.)
  - Solvers should include their full name and some kind of a contact information. Solutions should be submitted to **Iva Stavrov** in BoDine 305; email submissions are encouraged (istavrov at lclark). Solutions should be received by the end of the day on **March 8th, 2017**.