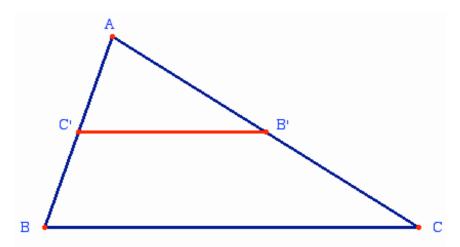
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http://beijingshanmaths.org	Assignment #6B → Dec. 9 – p.1/1

## [NB this is an extension of Ass. #6 p.3 which had a typo error]

**Problem (VSOP\*\*\*) :** Let ABC be a normal triangle, B' the middle of AC and C' the middle of AB. We want to place 3 special points on this triangle and prove that they are on the same line.



- 1. Determine and place the point I defined by the vector equation :  $2\overrightarrow{IC'} + \overrightarrow{IB'} = \overrightarrow{O}$
- 2. Determine and place the point D defined by the vector equation :  $3\overrightarrow{DA} + 2\overrightarrow{DB} = \overrightarrow{O}$
- 3. Determine and place the point E defined by the vector equation :  $2\overrightarrow{EB} + \overrightarrow{EC} = \overrightarrow{O}$
- 4. Prove by using a vector equation that the 3 points A, I, E, are on the same line.
- 5. Prove by using a vector equation that the 3 points C, I, D, are on the same line.t