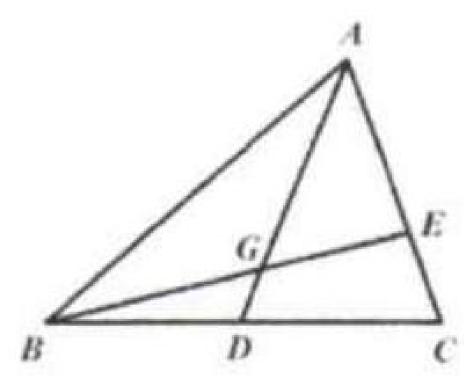
## Example 4

As shown in the figure, D is the midpoint of BC of triangle ABC. E is on AC such that AC=3CE. BE and AD meets at G. Find the ratio AG:GD. Solution: 4:1.



Draw DF//BE through and meets AC at F. Since D is the midpoint of BC, F is the midpoint of EC. Since AC = 3CE, AE = 2CE = 4EF. We also know that DF//BE. So AG : GD = AE : EF = 4 : 1.

