DISCUSSION FOR NINTH TUTORIAL

DATE: FEBRUARY 10 AND FEBRUARY 24, 2010

Start with a triangle ABC with area 1 and divide one side (segment AC) of that triangle into 4 equal spaced segments and label the endpoint of the segments closest to A by the label F. Now on an adjacent side of the triangle say (segment AB) split it into 5 equal spaced segments and label the endpoint of the segment closest to A by D. Let E be the intersection of the line CD and BF as in the diagram below.



Show that ADEF is a quadrilateral whose area is independent of the triangle that you started with. Next find the area of ADEF.