

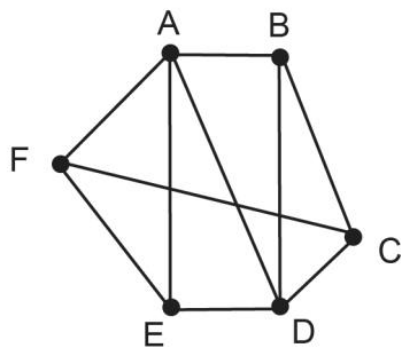
Question 5

(9 marks)

(a) Redraw the following graphs as planar graphs.

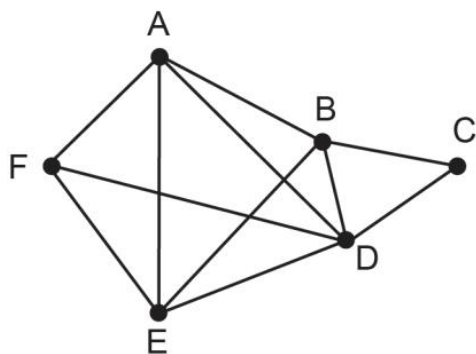
(i)

(1 mark)



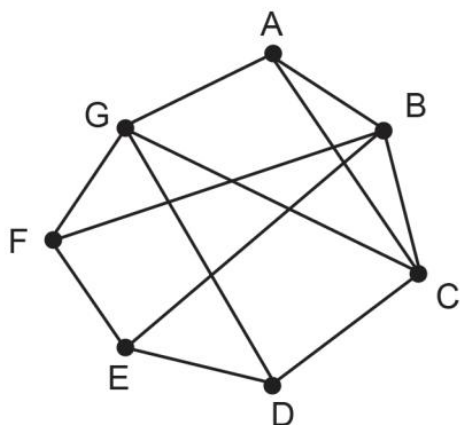
(ii)

(2 marks)



(iii)

(2 marks)



(b) Verify Euler's formula for the planar graph obtained in part (a)(i).

(2 marks)

- (c) One of the planar graphs is semi-Eulerian. State which graph it is, giving a reason for your choice. (2 marks)