BBM 205. Qui+ 8

1. Show that the graph K5 is not planar.

Answer: There are 10 edges and 5 vertices in Ks. So, e=10 and n=5.

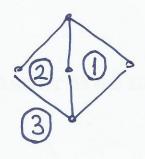
We know that for every plangar graph, it is true that e <3n-6.

But when $e = 10 \pm 3.5 - 6 = 9$, this is false. So, Ks cannot be planar.

2. Draw the given planar graphs without any crossings. How many faces are in your drawing?



Answer:



3 faces