

Math589 Homework 2

Note: To submit the k -th homework, simply put your files in the folder `HWk` on CoCalc, and it will be collected on the due day.

1. Suppose G is a simple graph on n vertices and m edges. Show that if $m \leq n - 2$ then G is not connected.
2. Find two distinct graphs on 4 vertices with 3 edges.