

Homework Engine Test

Student Admin

Problem 1 : Basic Counting

5 pts

How many edges are in K_n ?

(Solution hidden for study purposes)

Problem 2 : Connectivity

15 pts

Let G be a connected graph.

(a) Define vertex connectivity $\kappa(G)$.

(Solution hidden for study purposes)

(b) State Whitney's Theorem.

(Solution hidden for study purposes)

(c) Prove that $\kappa(C_n) = 2$ for $n \geq 3$.

(Solution hidden for study purposes)

Problem 3

This problem should automatically be "Problem 3".

(a) This should be part (a).

(b) This should be part (b).

Problem 4 : Drawings

10 pts

Draw C_3 and its complement.

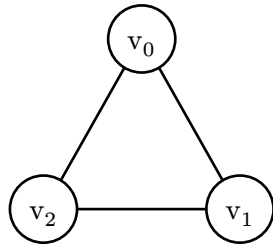


Figure 1: The Graph

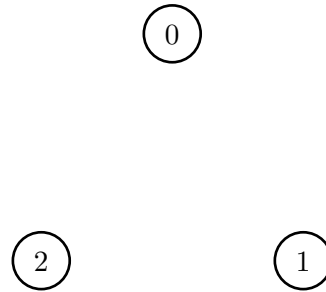


Figure 2: The Complement