

Homework 8

(8.1) Let G be the simple graph with vertex set $\{1, 2, \dots, 11\}$ defined by $i \leftrightarrow j$ if and only if i, j have a common factor bigger than 1. Determine the blocks of G .

(8.2) Construct a simple graph G with $\alpha(G) = 2$, $\alpha'(G) = 4$, $\delta(G) = 10$.

(8.3) Determine $\alpha(G)$, $\alpha'(G)$, and $\delta(G)$ for the graph G below.

