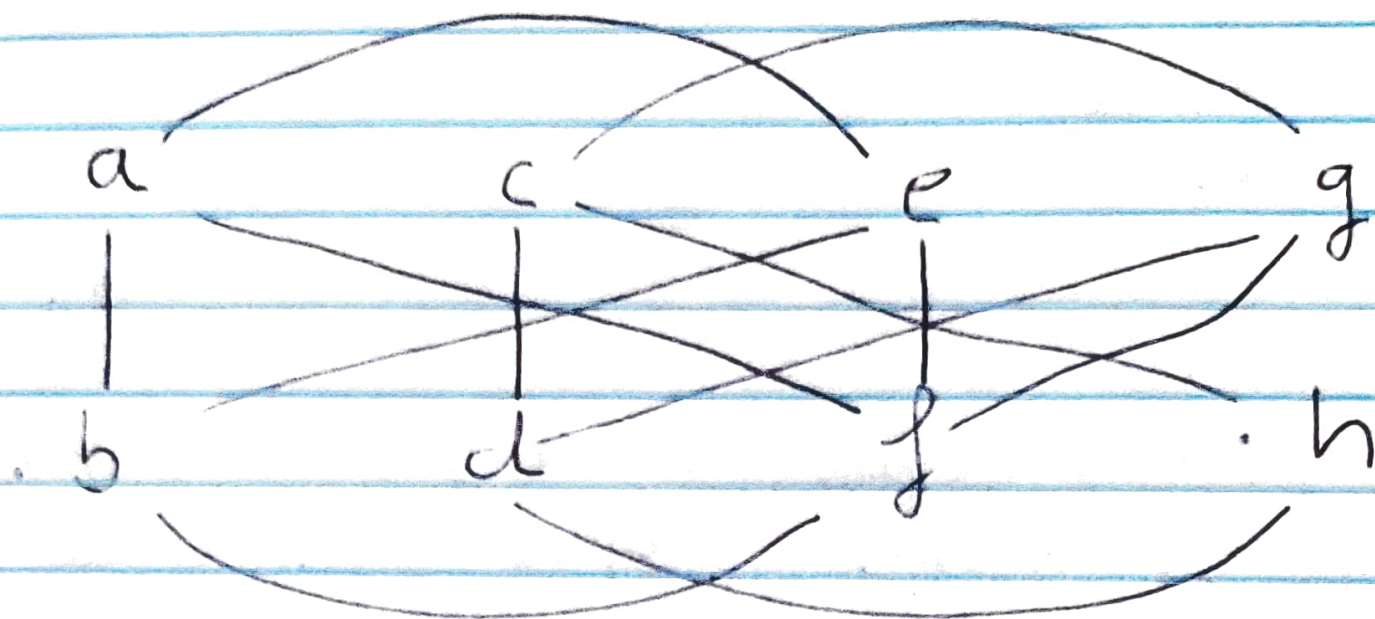# 1

a.

b. 8

c. 12

d. bidirected graph

e. a, b, f, e, g, d, c, h

f. a, b, e, f, g, c, h, d