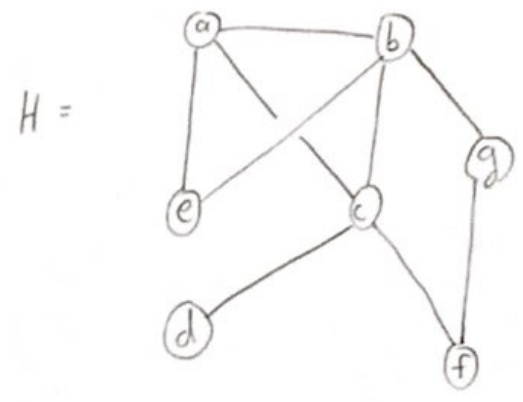
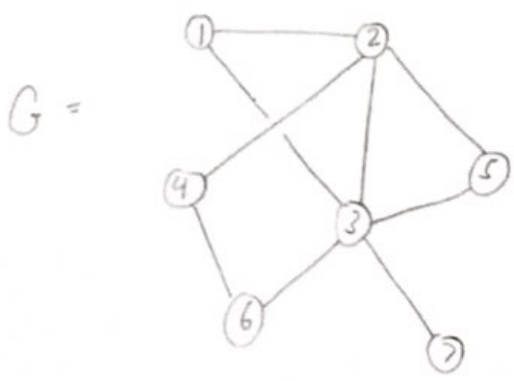


Quiz 8

Name Key



1) Find degree sequences for G, H.

$\text{degseq}(G) = (5, 4, 2, 2, 2, 2, 1)$; $\text{degseq}(H) = (4, 4, 3, 2, 2, 2, 1)$

Are G and H isomorphic?

No.

only a walk

2) Is 1, 3, 7, 3, 5, 2 a walk? yes a trail? no

Is a, c, b, g, f a trail? yes a path? yes

both!

Find $\text{diam } G = 3$

For instance, the distance from node 7 to 4 is 3 and there are no longer distances.

Find $\text{diam } H = 3$

For instance the distance $d(d, e) = 3$ and there are no further distances.