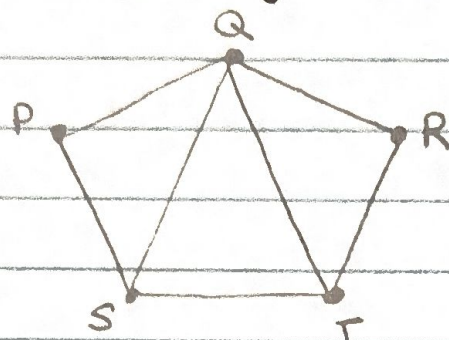


Heidi So Graph Theory HW #1: 1.2, 1.4, 1.6, 1.7

1.2) Draw the graph rep. the road in Fig 1.15 & write the # of vertices / edges and the degree of each vertex



- 5 vertices
- 7 edges

$$d_P = 2$$

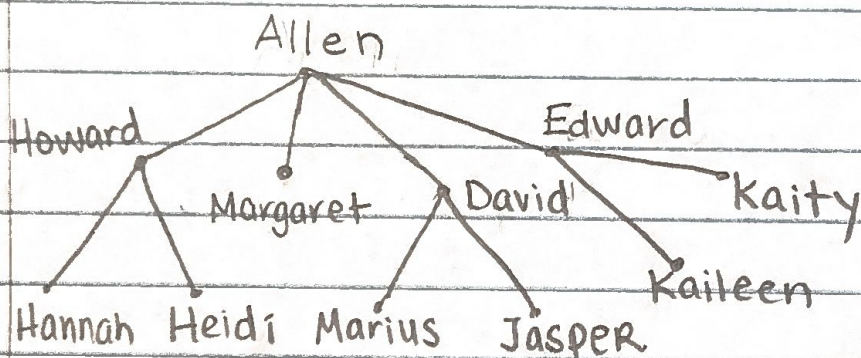
$$d_Q = 4$$

$$d_R = 2$$

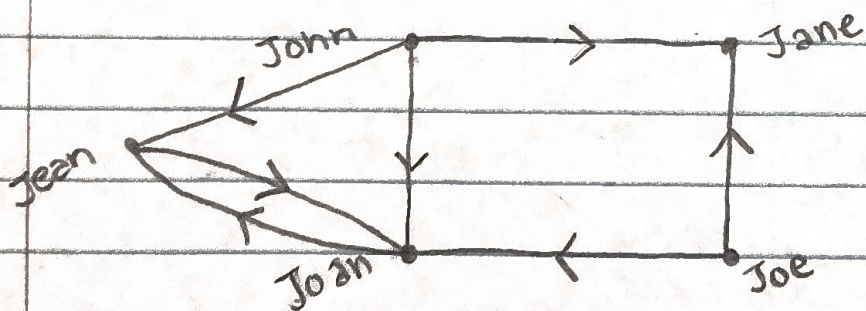
$$d_T = 3$$

$$d_S = 3$$

1.4) Draw a Graph corresponding to your family tree



1.6) John Likes Joan, Jean, and Jane
 Joe Likes Jane and Joan
 Jean and Joan Like each other.
 Draw a digraph



1.7) Snakes eat frogs, birds eat spiders
 Birds & spiders eat insects } Draw digraph
 frogs eat snails, spiders, and insects

