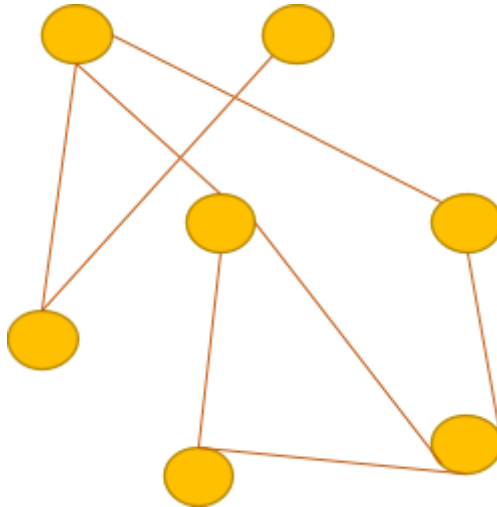


Introduction:

In this worksheet, we'll be looking at exercises related to spanning trees

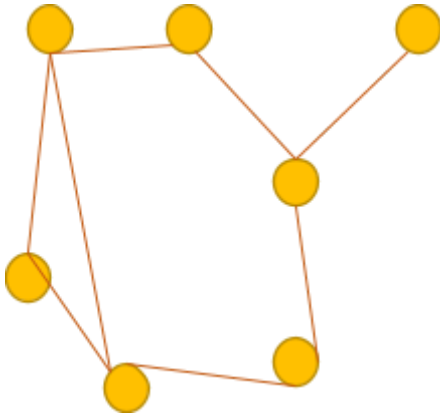
Questions: (* questions can be used for evaluation)

Puzzle 1. Remove all loops from this diagram



Draw the answer to the puzzle below:

Puzzle 2. Which of these options are actually spanning trees?



(1)



(2)



(3)

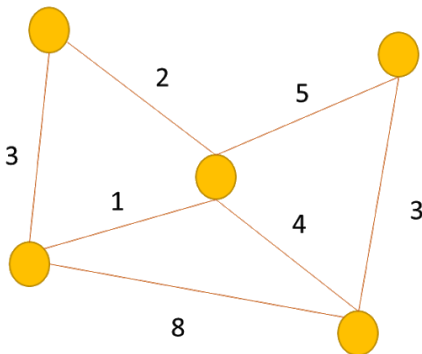


(4)

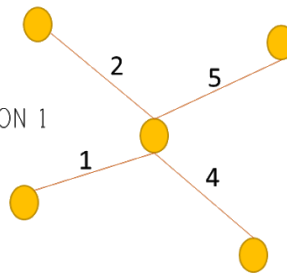
Which of these solutions are valid – circle them (more than one can be correct)

(1) (2) (3) (4)

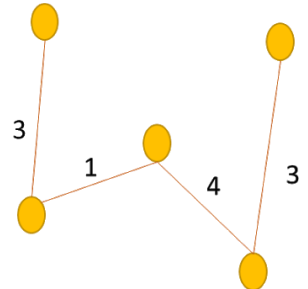
Puzzle 3. Write the cost for each spanning tree option next to it. Circle the tree with the least cost.



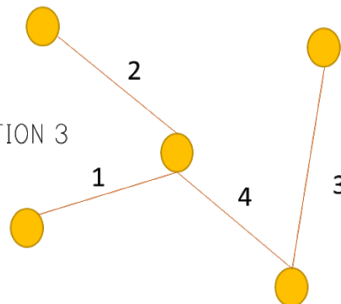
OPTION 1



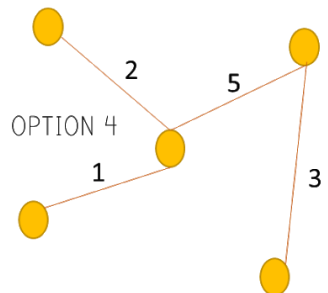
OPTION 2



OPTION 3



OPTION 4



Puzzle 4. Here is a diagram – find the cheapest spanning tree for this. Draw it below.

