Unit 2: Graphs and Graph Theory
2.06 Tree Diagrams

A **TREE DIAGRAM** is a CONNECTED graph without a simple circuit.

Where have we seen these before?

- Factor Trees
- Probability
- Family Trees

Ex: The Marbles

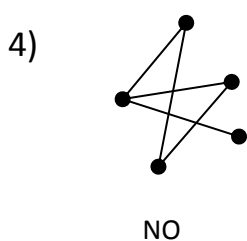A bowl contains 4 red marbles, 3 green marbles and 2 yellow marbles. Three successive draws are made (WITHOUT REPLACEMENT).
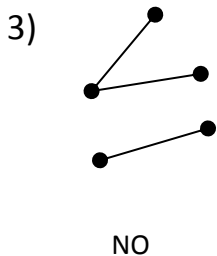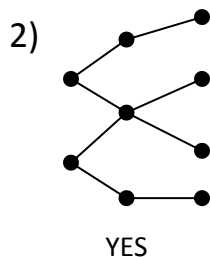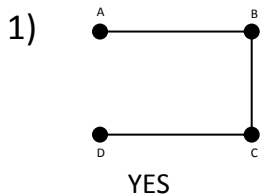
a) Construct the probability tree for this random experiment.

   see diagram ->

b) Explain why a "probability tree" is also a graph

   IT IS MADE UP OF VERTICES AND EDGES

Are these trees?

1)

YES

2)

YES

3)

NO

4)

NO

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Draw 1	Draw 2	Draw 3