Regular Graphs

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Discrete Mathematics

Regular Graphs

- In an n-regular graph, the vertices are all of degree n.

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Say what is meant by an n-regular graph.

Can you draw the following graphs? If so do so. If not explain why not.

(i) A 3 regular graph with six vertices.

(ii) A 3 regular graph with seven vertices.

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(i) A simple, connected graph has 7 vertices, all having the same degree d. State the possible values of d and for each value also give the number of edges in the corresponding graph.

(ii) Another simple, connected graph has 6 vertices, all having the same degree, n. Draw such a graph when $n = 3$ and state the other possible values of n.

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