posed of overlapping

sides of each octagos.

Problem 3

Elizabeth wants to make tossellations using regular polygons that meet at their vertices. She uses only equilateral triangles, squares, and regular dodecagons. She calls these Elizabeth trasellations.

The configuration of a vertex is the relational order of the polygons at that vertex. For example, in the following diagram, the configuration of vertex A is (3, 3, 3, 4, 4) (or any of (3, 3, 4, 4, 3), (3, 4, 4, 3, 3), (4, 4, 3, 3, 3), (4, 4, 3, 3, 3), (4, 3, 3, 3), (4, 3, 3, 3), (4, 3, 3, 4, 3) and the configuration of vertex B is (3, 3, 4, 3, 4) (or any of (3, 4, 3, 4, 3), (4, 3, 4, 3, 3), (3, 4, 3, 3, 4), (4, 3, 3, 4, 3)). The numbers in a configuration are the numbers of edges in the polygons.





- a List all the possible configurations for a vertex in a dodecagon in an Elizabeth tessellation.
- b Show that there is only one Elizabeth tessellation that contains no squares. Draw the tessellation.
- c Show that there is only one Elizabeth tessellation in which each triangle shares exactly two edges with dedecagons. Draw the tessellation.
- d Show that there is only one Elizabeth tessellation in which each square shares exactly two edges with dedecagons. Draw the tessellation.



 (T_1, T_2, T_3, T_4) its where lines meet

L. T. . .

 T_2, T_3, T_4 ?

Dirichlet Student Problems 2014

Annelies Wilder-Smith

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The book delves into Dirichlet Student Problems 2014. Dirichlet Student Problems 2014 is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Dirichlet Student Problems 2014, encompassing both the fundamentals and more intricate discussions.

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