

Planar Configuration Spaces of Disk Arrangements and Hinged Polygons

Clinton Bowen

Cal State Northridge

December 6, 2016

- * item 1
- * item 2

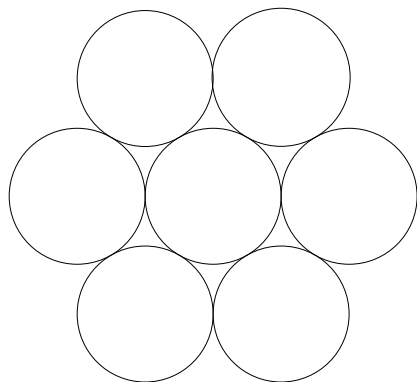


Figure: Caption Text

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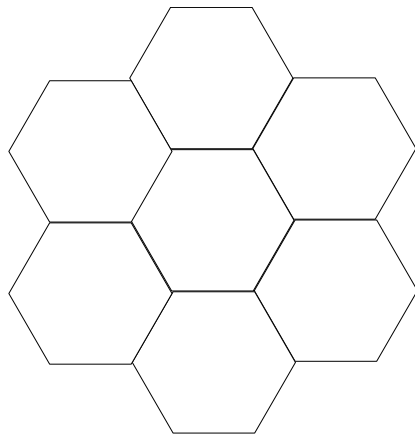


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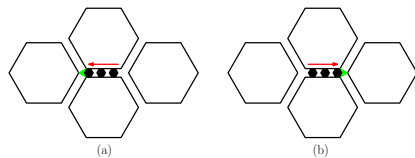


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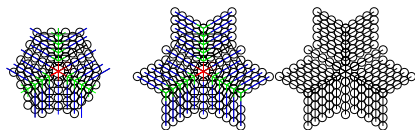


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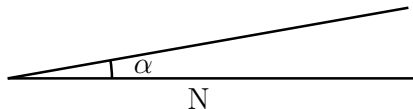


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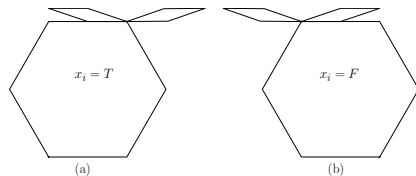


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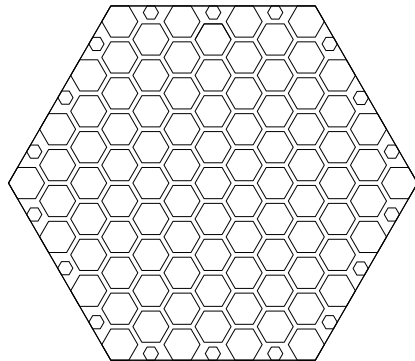


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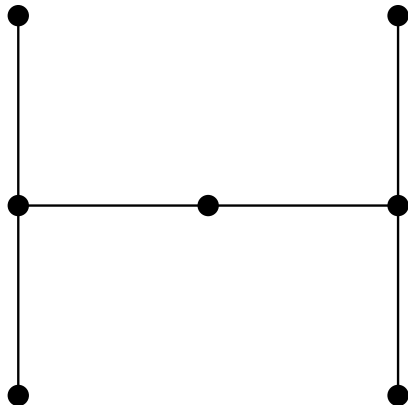


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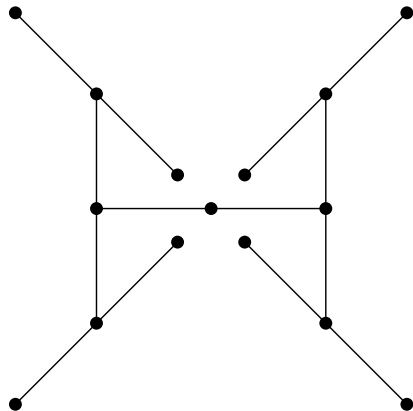


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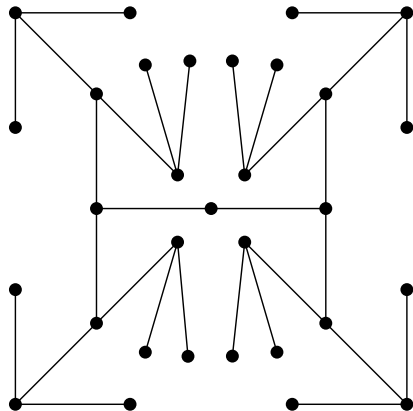


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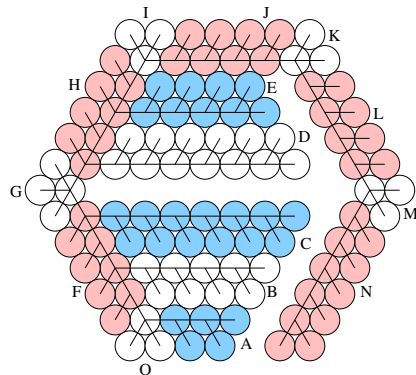


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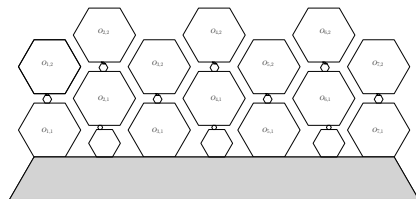


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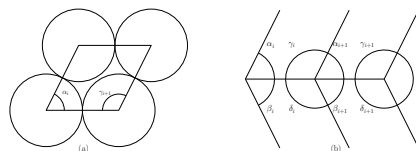


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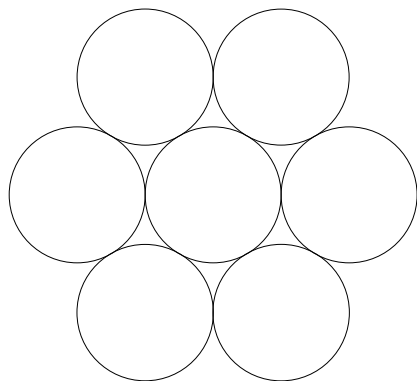


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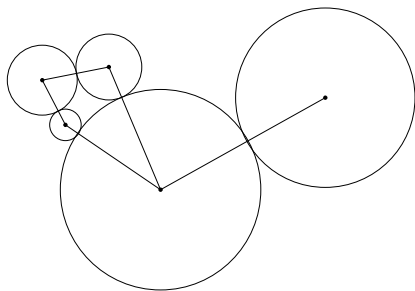


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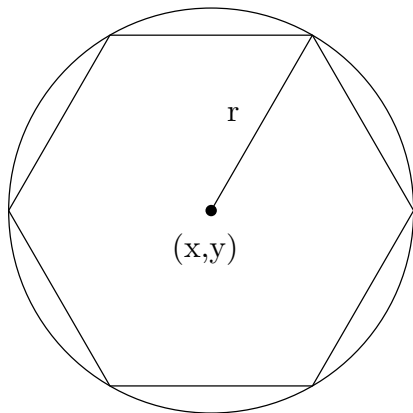


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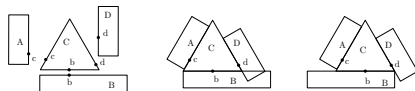


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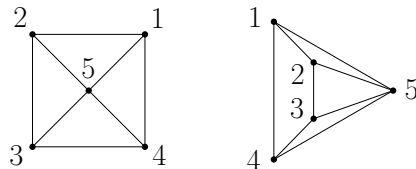


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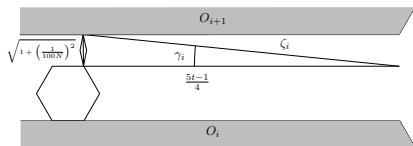


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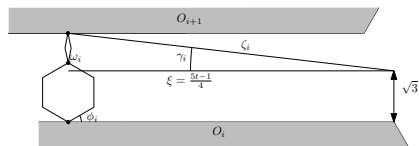


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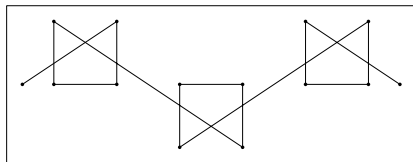


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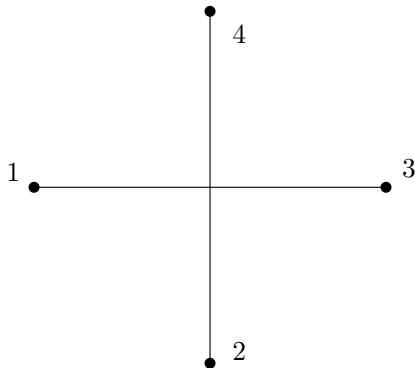


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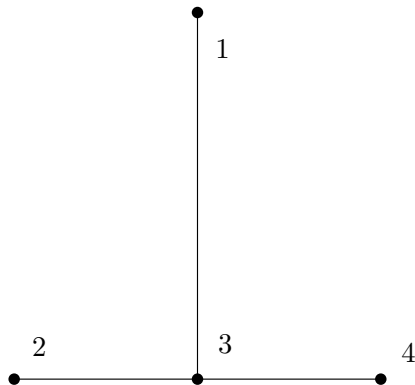
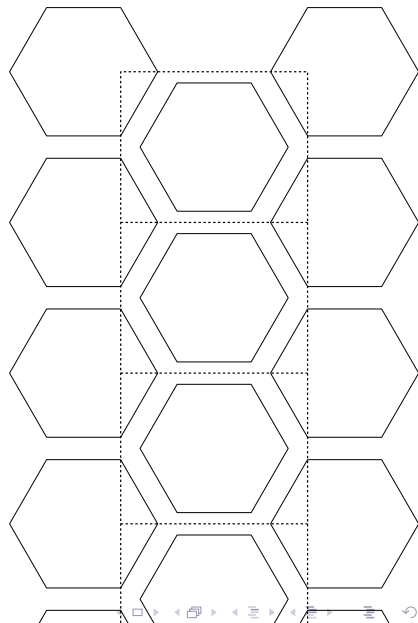
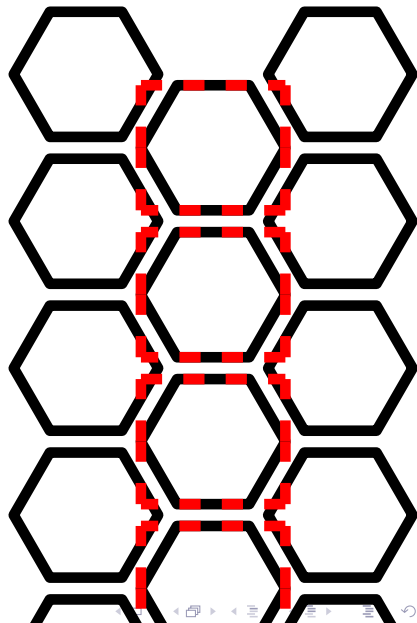


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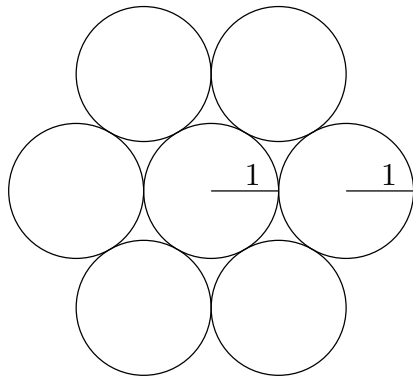


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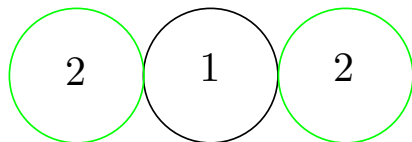


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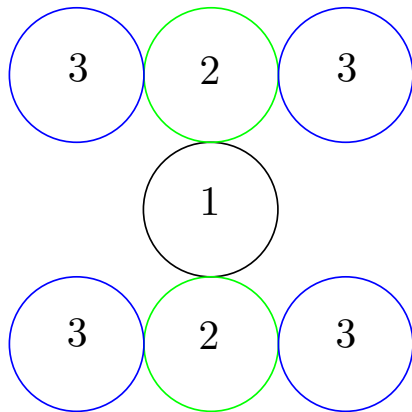


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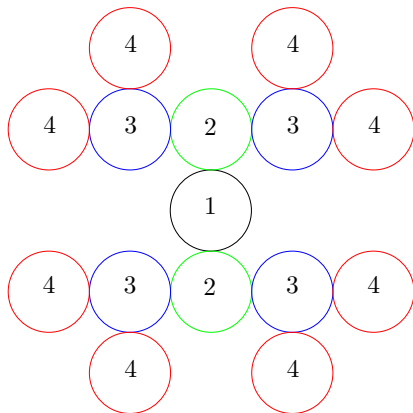


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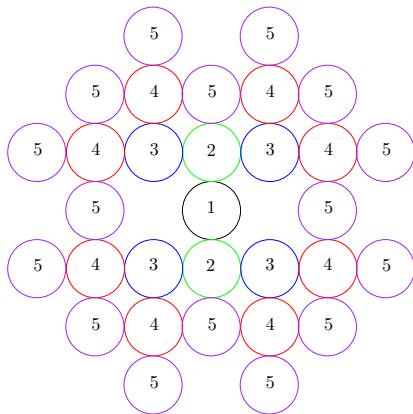


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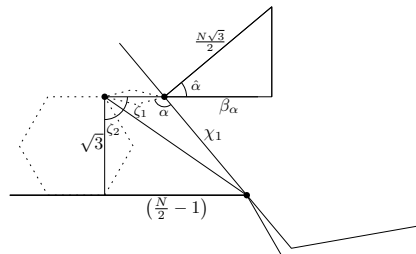


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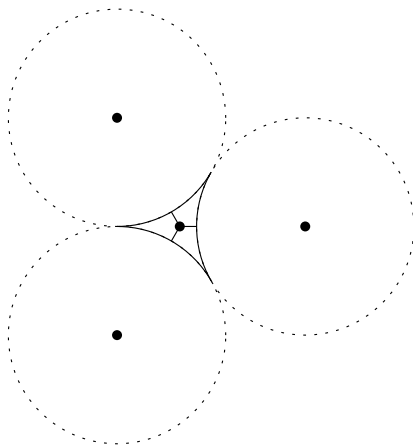


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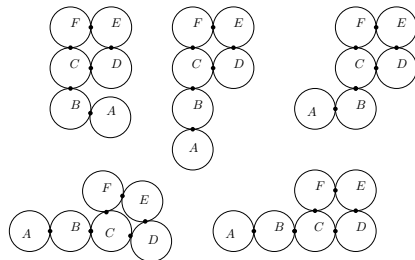


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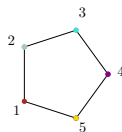


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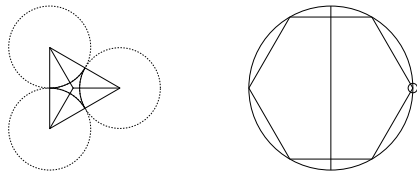


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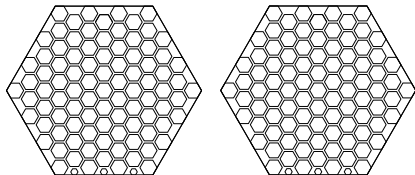


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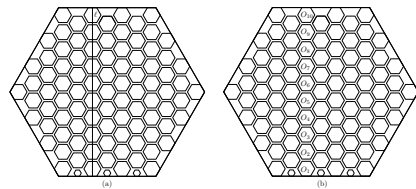


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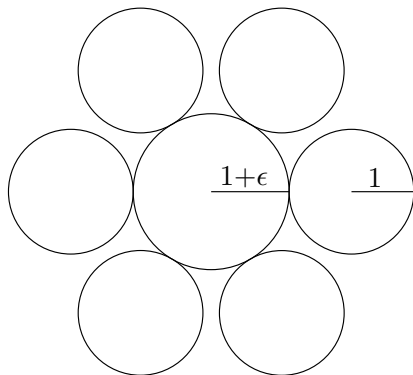


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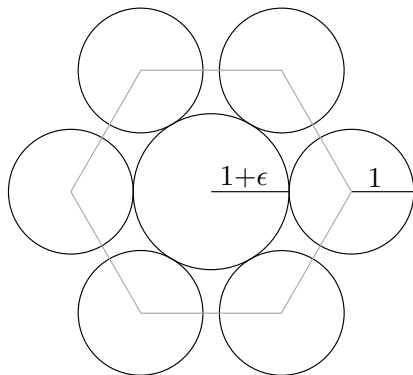


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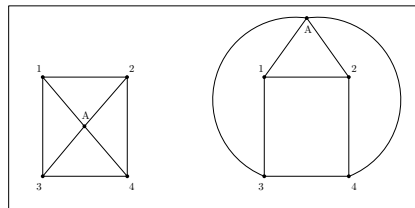


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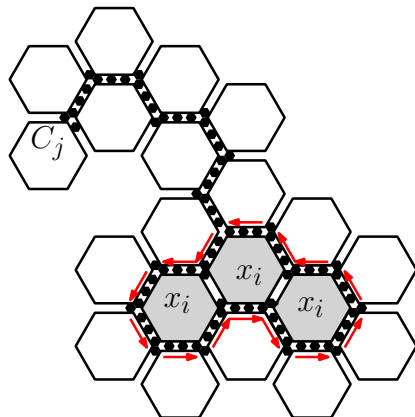


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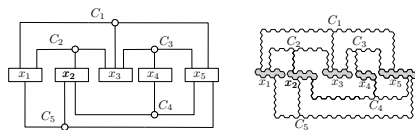


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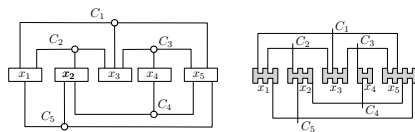


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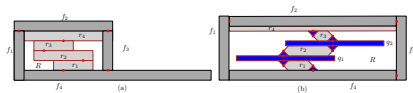


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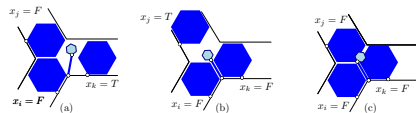


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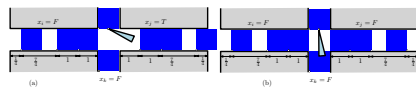


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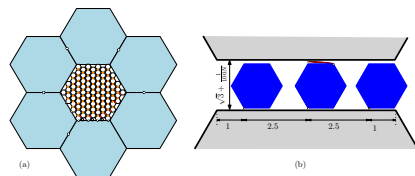


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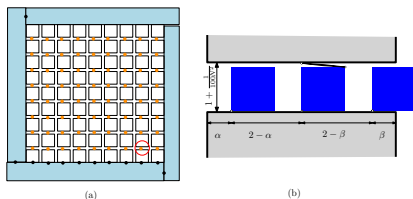


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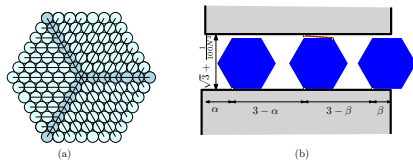


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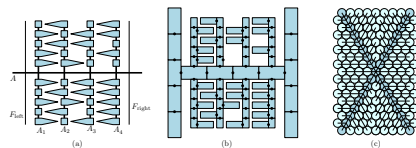


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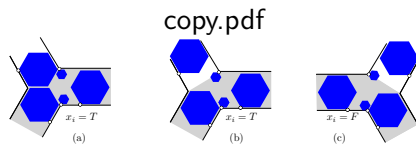


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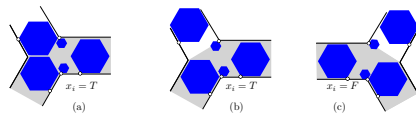


Figure: Caption Text

- ## Planar Configuration Spaces



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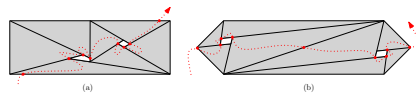


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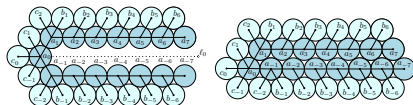


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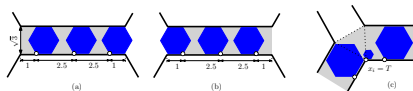


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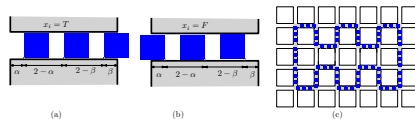


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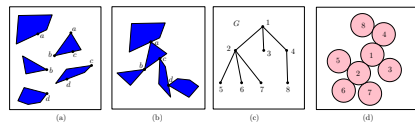


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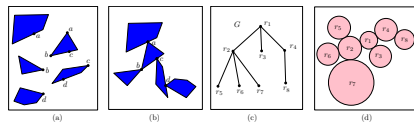


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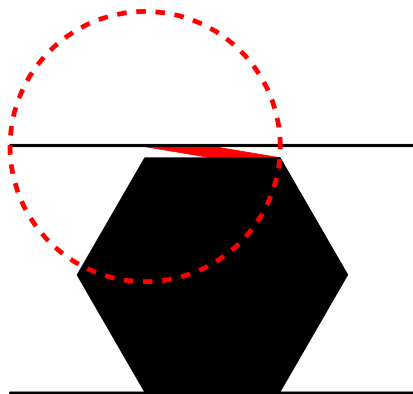


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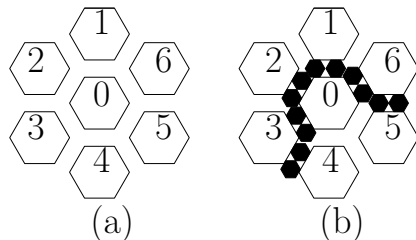
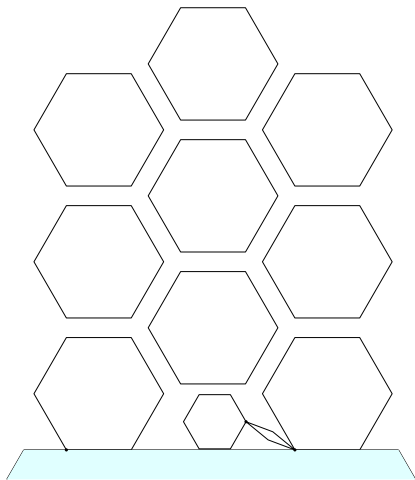


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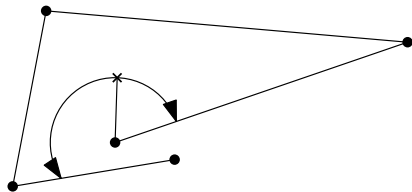


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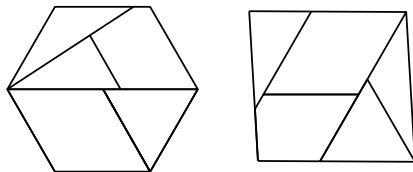


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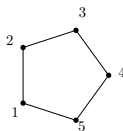
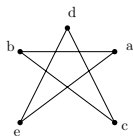


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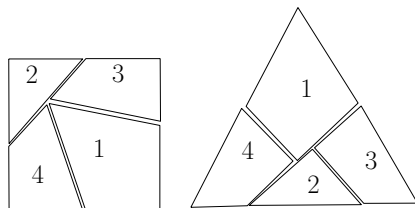


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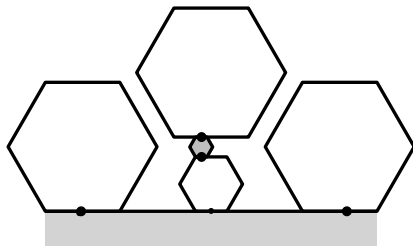


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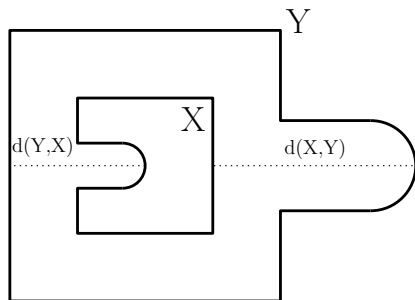


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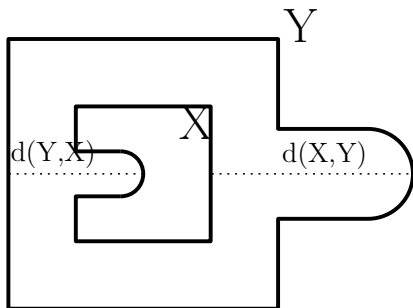


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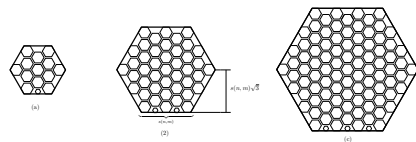


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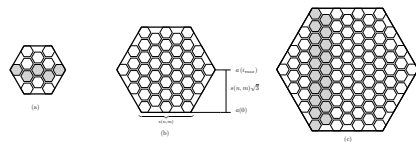


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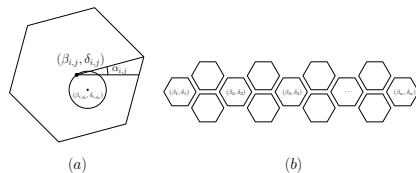


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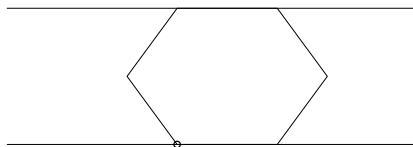


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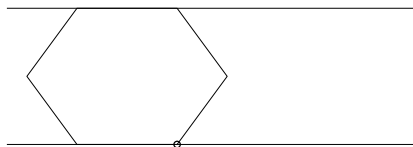


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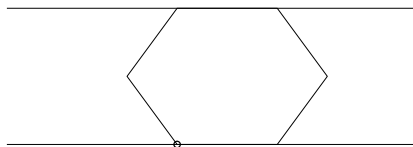


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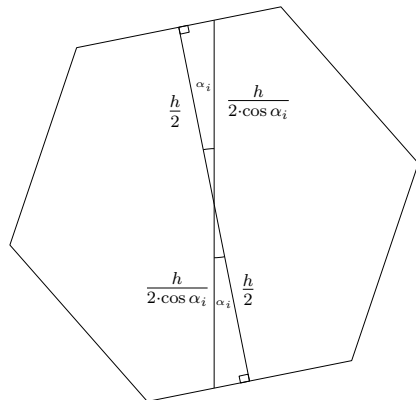


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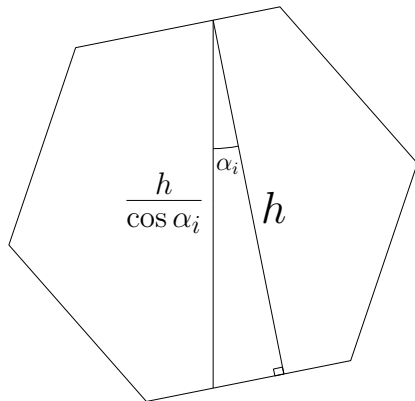


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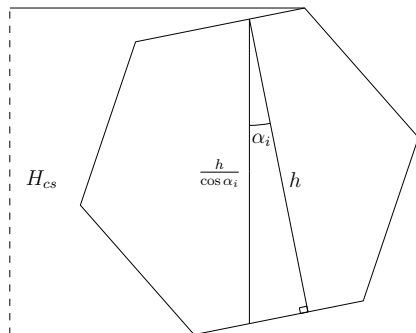


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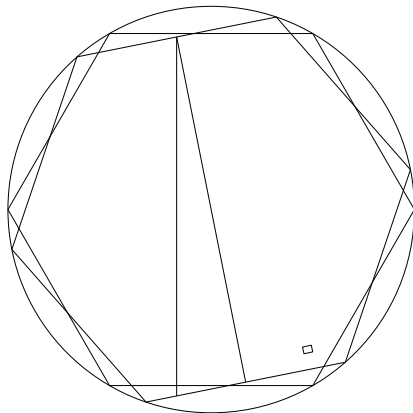


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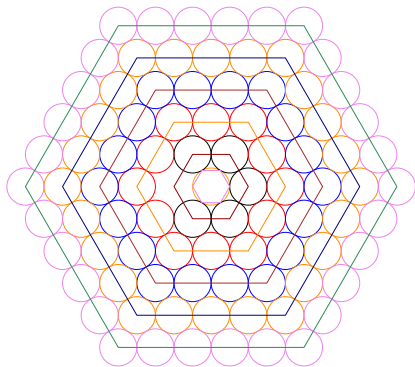


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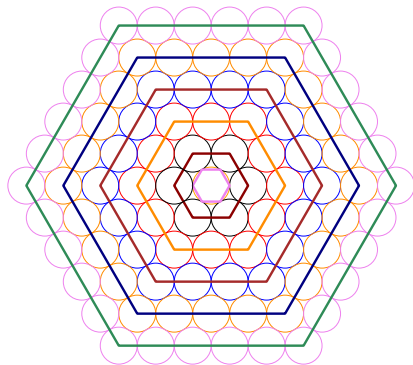


Figure: Caption Text

- * item 1
- * item 2

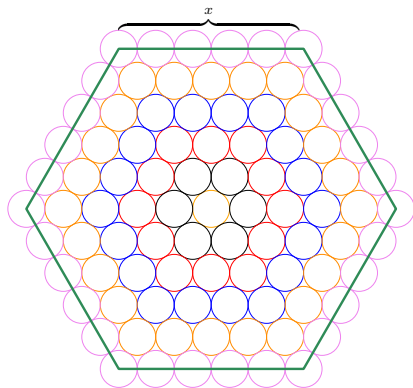


Figure: Caption Text

- * item 1
- * item 2

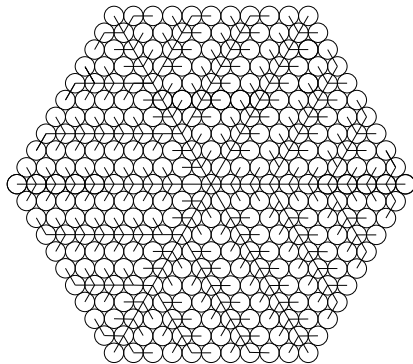


Figure: Caption Text

- * item 1
- * item 2

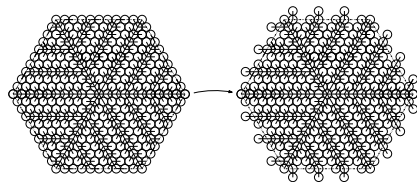


Figure: Caption Text

- * item 1
- * item 2

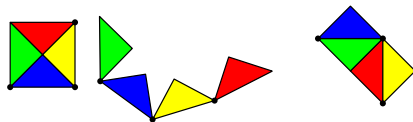


Figure: Caption Text

- * item 1
- * item 2

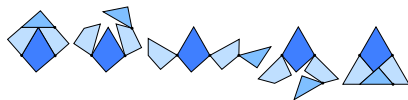


Figure: Caption Text

- * item 1
- * item 2

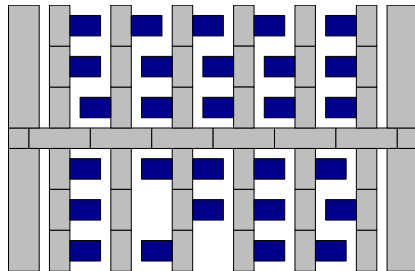


Figure: Caption Text

- * item 1
- * item 2

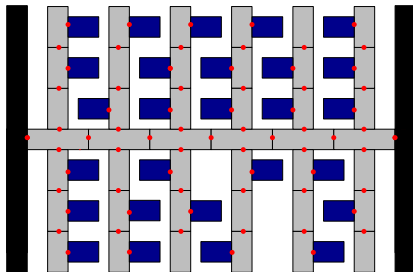


Figure: Caption Text

- * item 1
- * item 2

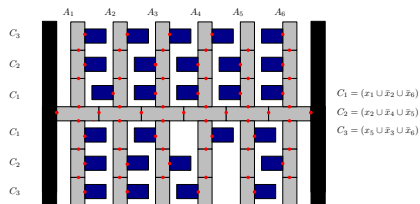


Figure: Caption Text

- * item 1
- * item 2

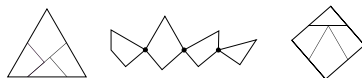


Figure: Caption Text

- * item 1
- * item 2

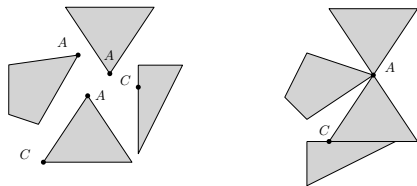


Figure: Caption Text

- * item 1
- * item 2

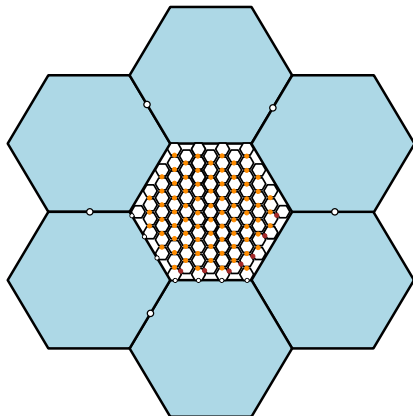


Figure: Caption Text

- * item 1
- * item 2

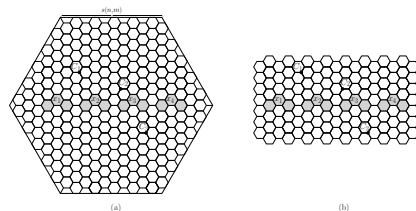


Figure: Caption Text

- * item 1
- * item 2

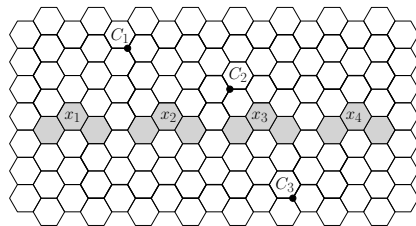


Figure: Caption Text

- * item 1
- * item 2



Figure: Caption Text

- * item 1
- * item 2

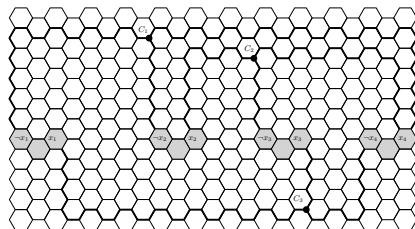


Figure: Caption Text

- * item 1
- * item 2

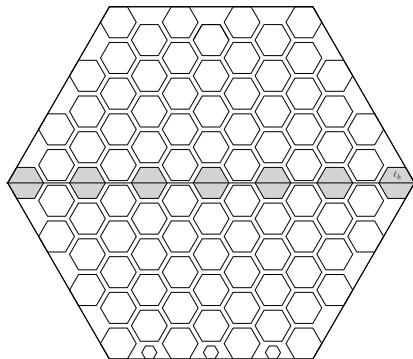


Figure: Caption Text

- * item 1
- * item 2

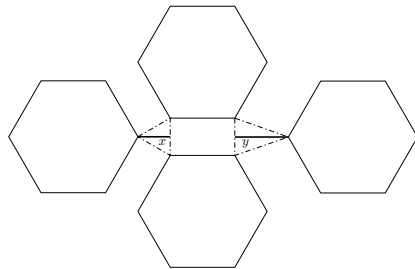


Figure: Caption Text

- * item 1
- * item 2

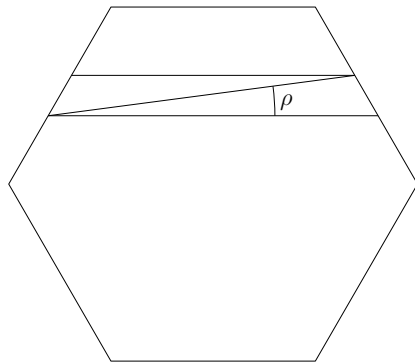


Figure: Caption Text

- * item 1
- * item 2

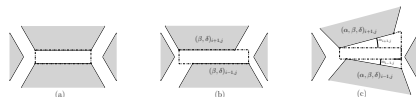


Figure: Caption Text

- * item 1
- * item 2

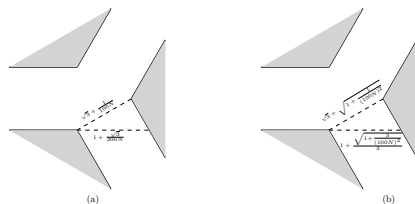


Figure: Caption Text

- * item 1
- * item 2

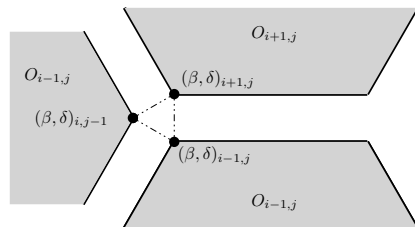


Figure: Caption Text

- * item 1
- * item 2

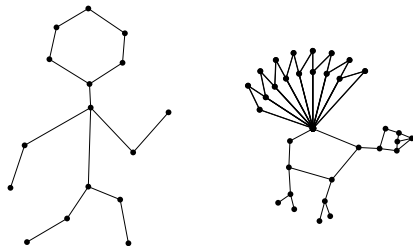


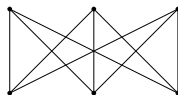
Figure: Caption Text

- * item 1
- * item 2

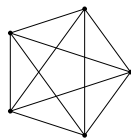
Insert Figure Here

Figure: Caption Text

- * item 1
- * item 2



$K_{3,3}$

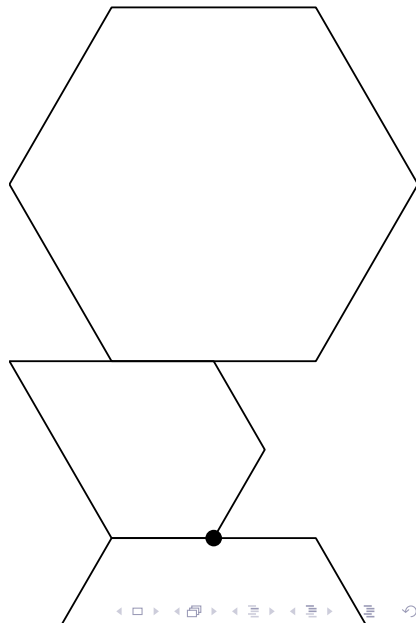


K_5

Figure: Caption Text

LeftSwitchBetweenTwoPolygons.pdf

- * item 1
- * item 2



- * item 1
- * item 2

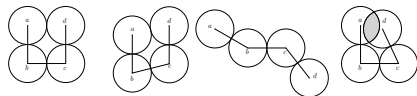


Figure: Caption Text

- * item 1
- * item 2

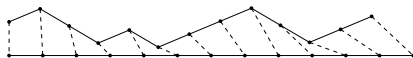


Figure: Caption Text

- * item 1
- * item 2

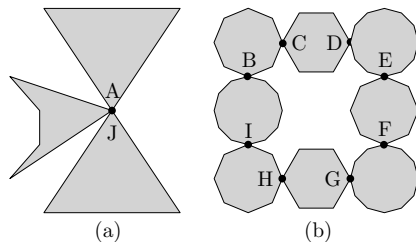


Figure: Caption Text

- * item 1
- * item 2

$$\begin{aligned}G &= (V, E) \\V &= \{1, 2, 3, 4\} \\E &= \{12, 23, 34, 41, 13\} \\f_1(12) = f_1(23) = f_1(34) = f_1(41) = f_1(13) &= 1 \\f_2(12) = f_2(23) = 1, f_2(13) = f_2(34) = \sqrt{2}, f_2(41) &= 2\end{aligned}$$

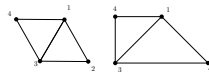


Figure: Caption Text

- * item 1
- * item 2

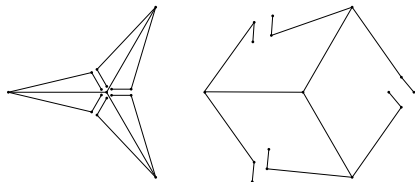


Figure: Caption Text

- * item 1
- * item 2

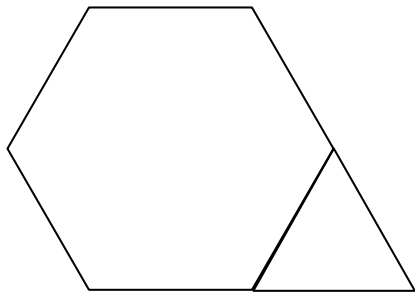


Figure: Caption Text

- * item 1
- * item 2

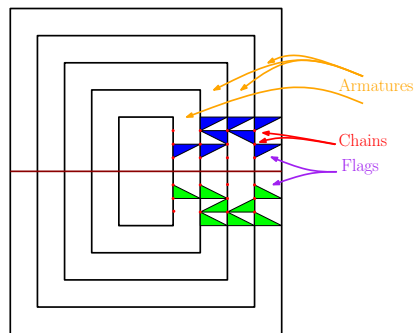


Figure: Caption Text

- * item 1
- * item 2

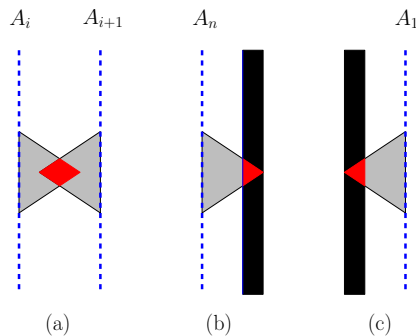


Figure: Caption Text

- * item 1
- * item 2

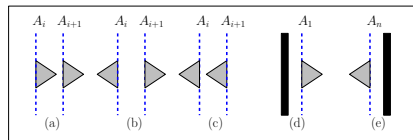


Figure: Caption Text

- * item 1
- * item 2

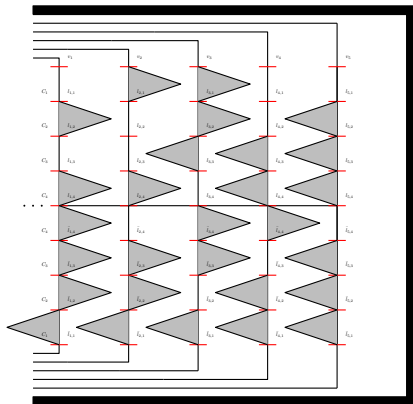


Figure: Caption Text

- * item 1
- * item 2

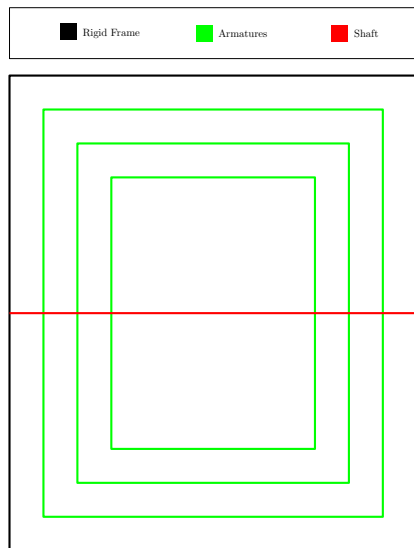


Figure: Caption Text

- * item 1
- * item 2

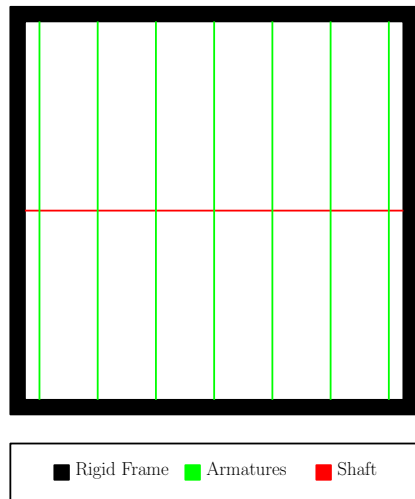


Figure: Caption Text

- * item 1
- * item 2

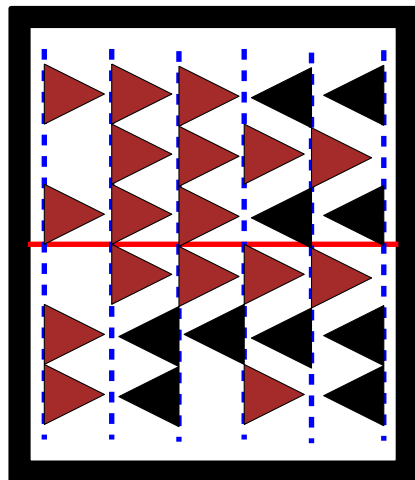


Figure: Caption Text

- * item 1
- * item 2

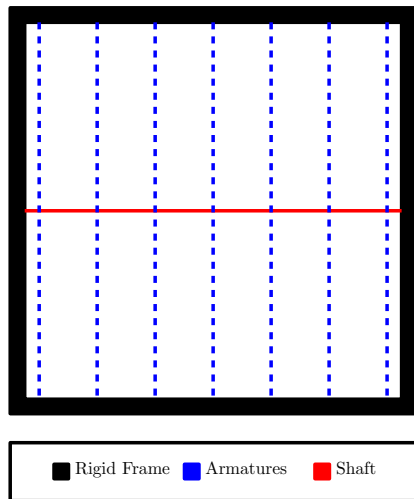


Figure: Caption Text

- * item 1
- * item 2

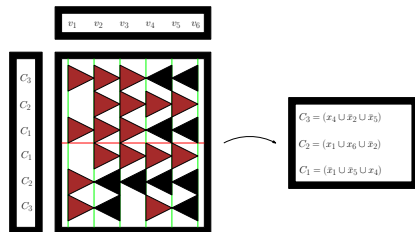


Figure: Caption Text

- * item 1
- * item 2

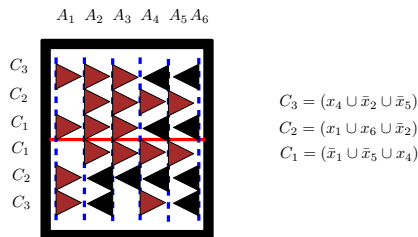


Figure: Caption Text

- * item 1
- * item 2

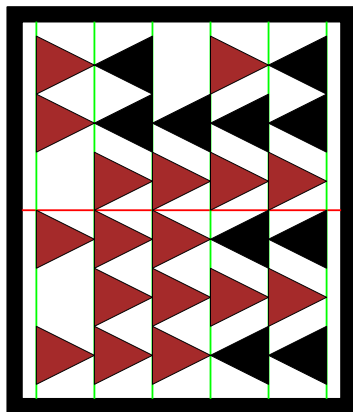


Figure: Caption Text



- * item 1
- * item 2



Figure: Caption Text

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- * item 2

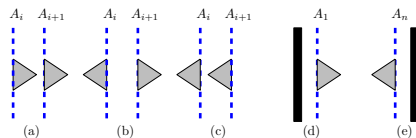


Figure: Caption Text

- * item 1
- * item 2

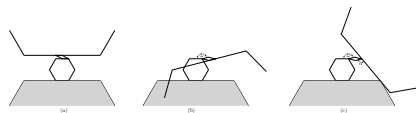


Figure: Caption Text

- * item 1
- * item 2

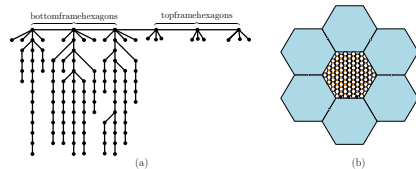


Figure: Caption Text

- * item 1
- * item 2

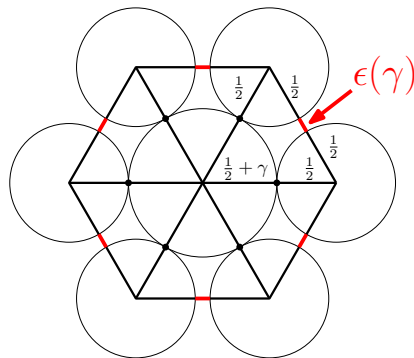


Figure: Caption Text

- * item 1
- * item 2

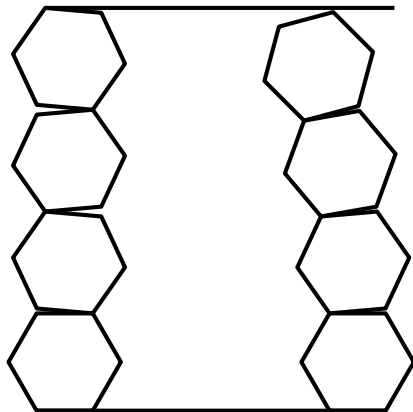


Figure: Caption Text

- * item 1
- * item 2

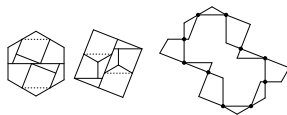


Figure: Caption Text

- * item 1
- * item 2

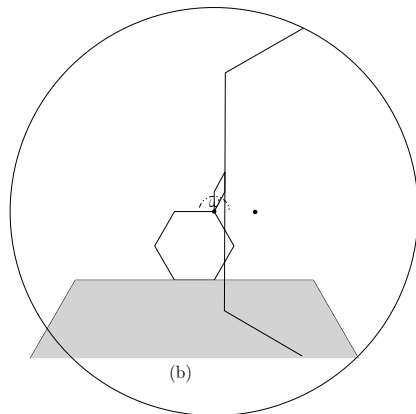
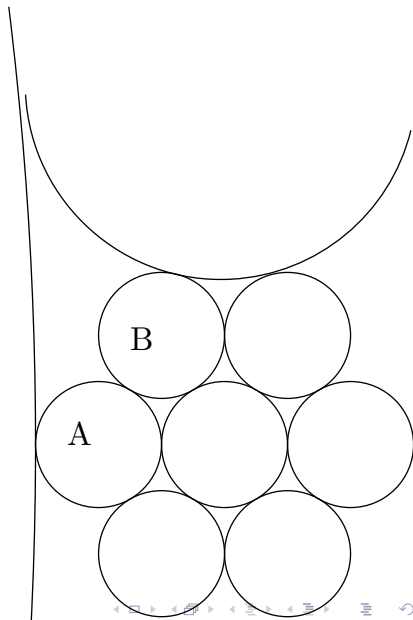


Figure: Caption Text

OrderedDiskArrangementExample1.pdf

- * item 1
- * item 2



- * item 1
- * item 2

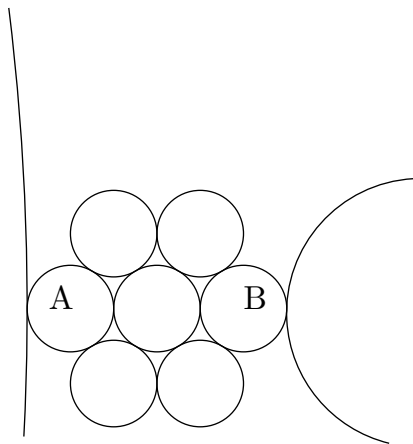


Figure: Caption Text

- * item 1
- * item 2

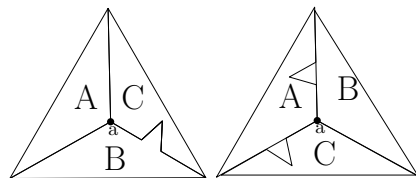


Figure: Caption Text

- * item 1
- * item 2

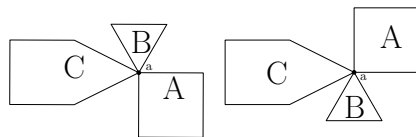


Figure: Caption Text

- * item 1
- * item 2

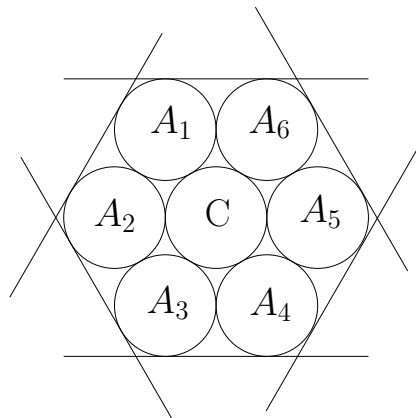


Figure: Caption Text

- * item 1
- * item 2

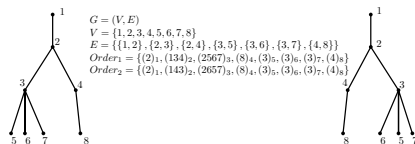


Figure: Caption Text

- * item 1
- * item 2

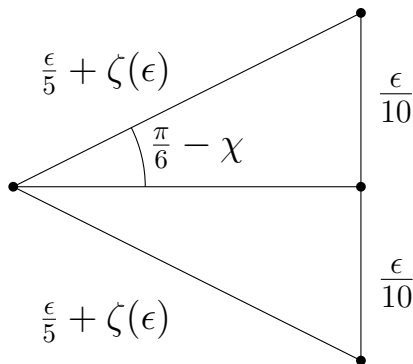


Figure: Caption Text

- * item 1
- * item 2

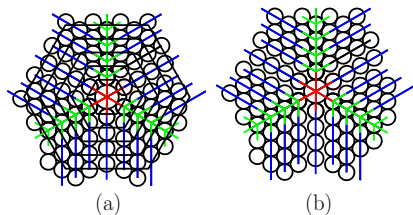


Figure: Caption Text

- * item 1
- * item 2

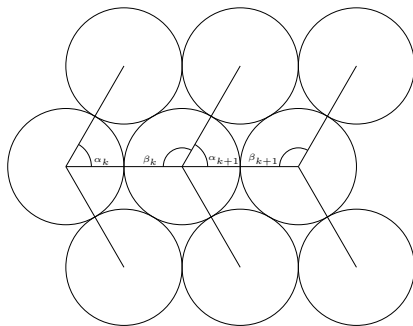


Figure: Caption Text

- * item 1
- * item 2

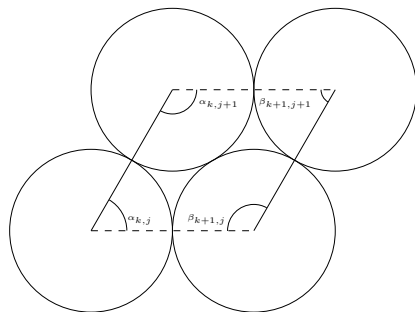


Figure: Caption Text

- * item 1
- * item 2

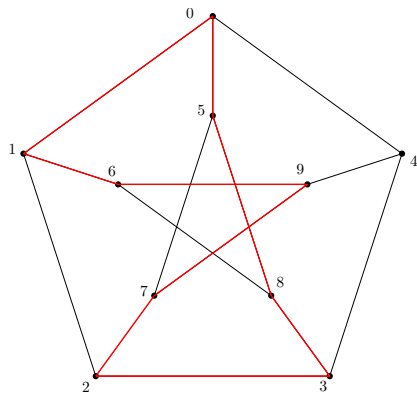


Figure: Caption Text

- * item 1
- * item 2

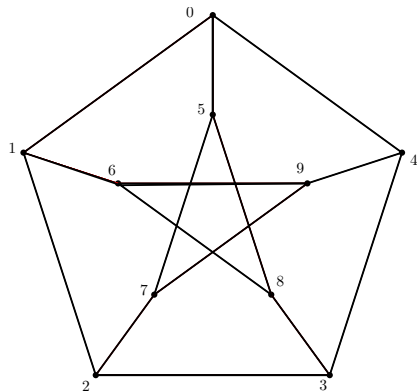


Figure: Caption Text

- * item 1
- * item 2

$$\begin{aligned} G &= (V, E) \\ V &= \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\} \\ E &= \left\{ \begin{array}{l} \{0, 1\}, \{1, 2\}, \{2, 3\}, \{3, 4\}, \{4, 0\}, \{5, 8\}, \{8, 6\}, \\ \{6, 9\}, \{9, 7\}, \{7, 5\}, \{0, 5\}, \{1, 6\}, \{2, 7\}, \{3, 8\}, \{4, 9\} \end{array} \right\} \end{aligned}$$

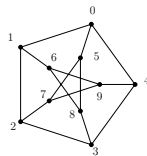


Figure: Caption Text

- * item 1
- * item 2

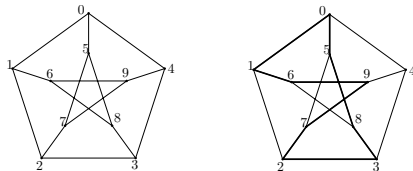


Figure: Caption Text

- * item 1
- * item 2

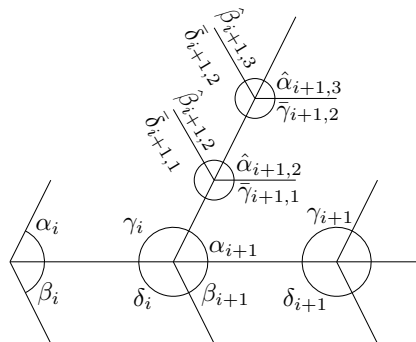


Figure: Caption Text

- * item 1
- * item 2

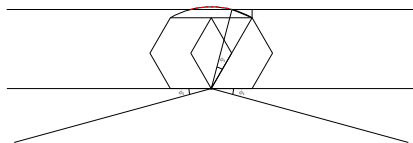


Figure: Caption Text

- * item 1
- * item 2

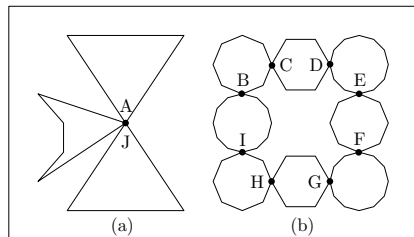


Figure: Caption Text

- * item 1
- * item 2

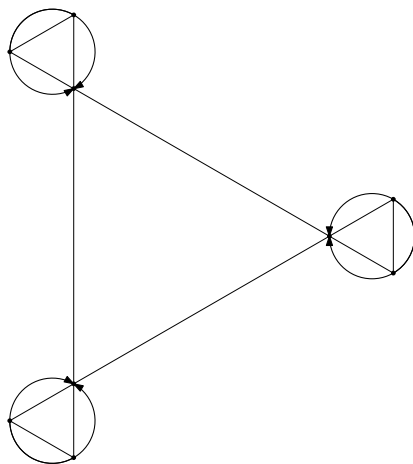


Figure: Caption Text

- * item 1
- * item 2

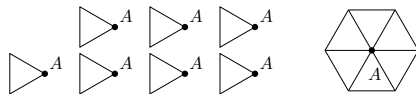


Figure: Caption Text

- * item 1
- * item 2

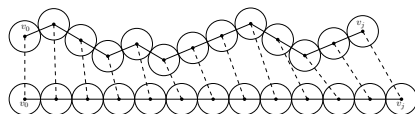


Figure: Caption Text

- * item 1
- * item 2

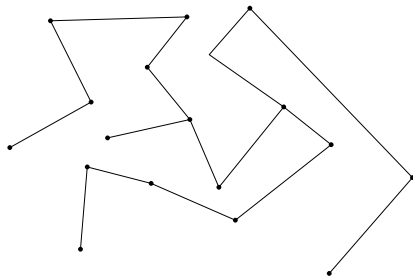


Figure: Caption Text

- * item 1
- * item 2

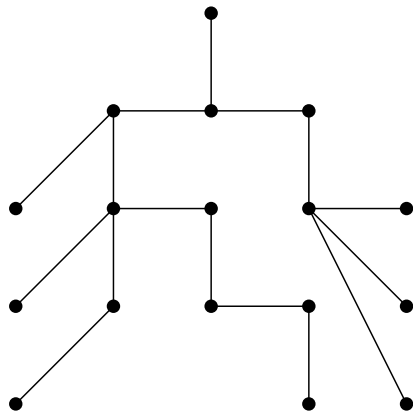


Figure: Caption Text

- * item 1
- * item 2

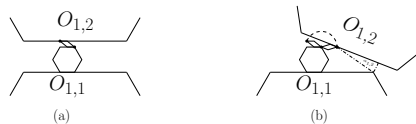
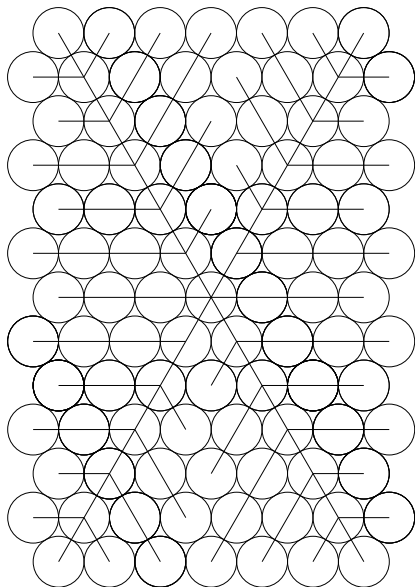


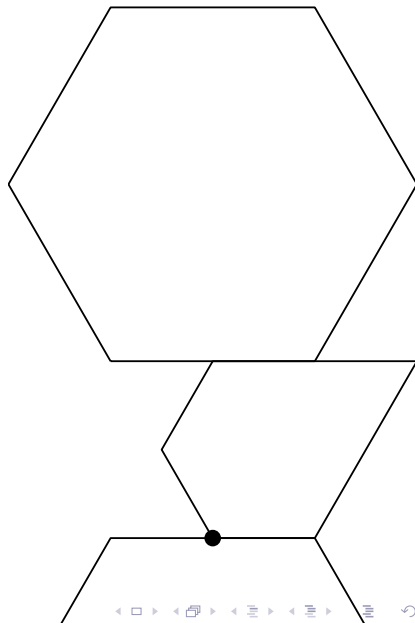
Figure: Caption Text

- * item 1
- * item 2



RightSwitchBetweenTwoPolygons.pdf

- * item 1
- * item 2



- * item 1
- * item 2

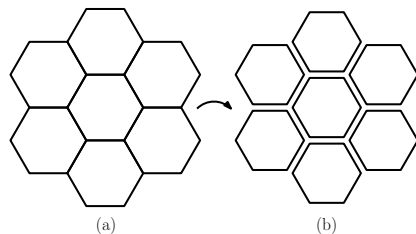


Figure: Caption Text

- * item 1
- * item 2

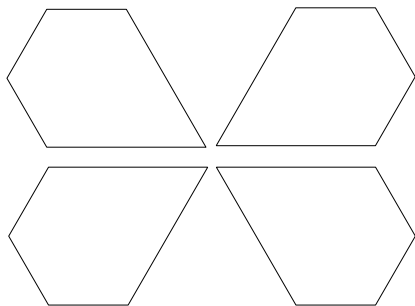


Figure: Caption Text

- * item 1
- * item 2

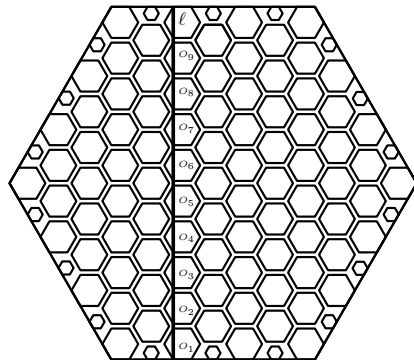


Figure: Caption Text

- * item 1
- * item 2

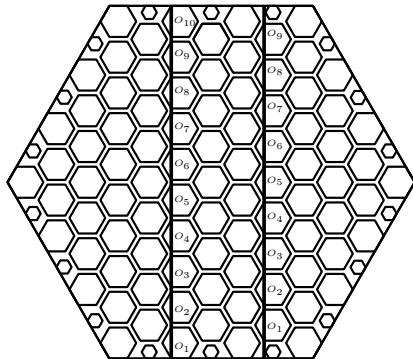


Figure: Caption Text

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- * item 2

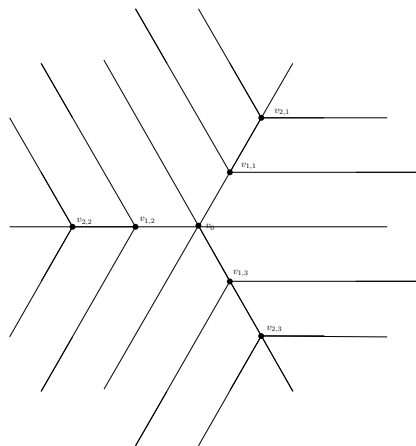


Figure: Caption Text

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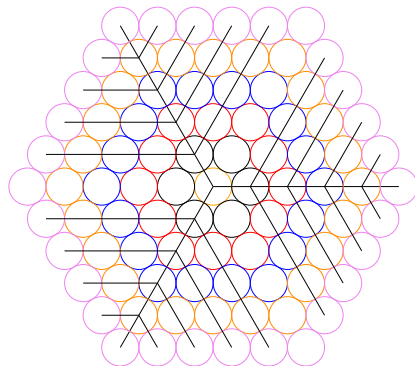


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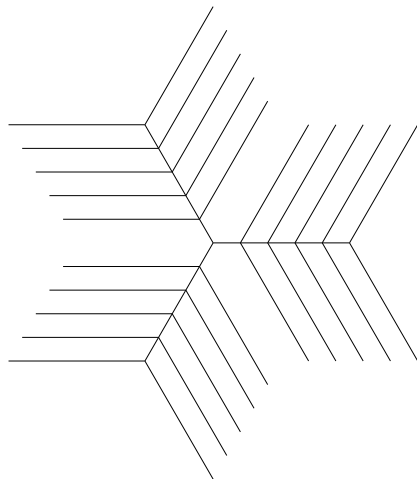


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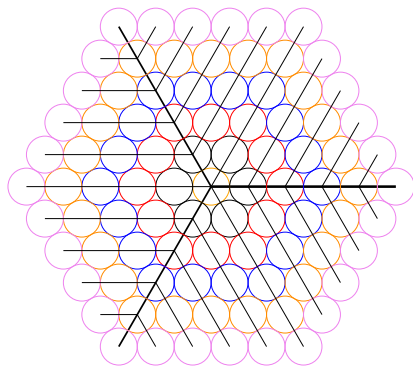


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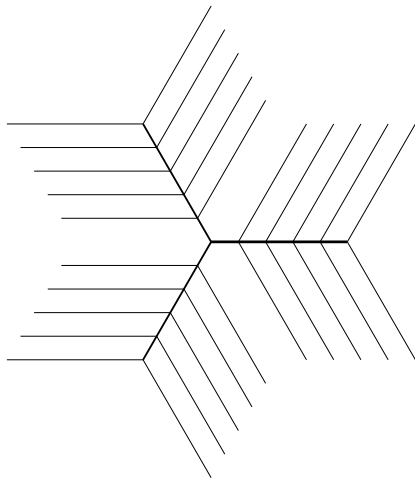


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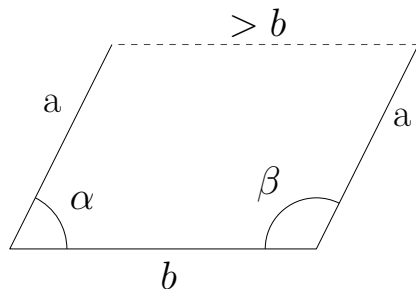


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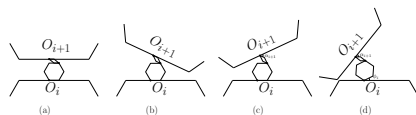


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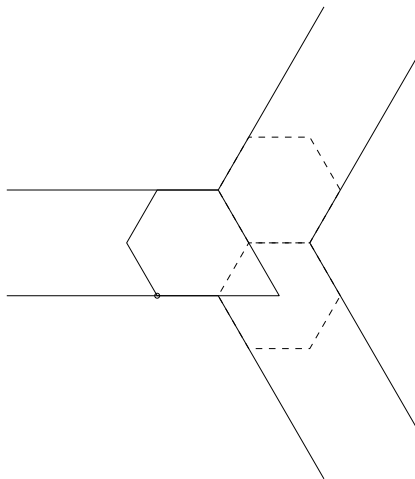


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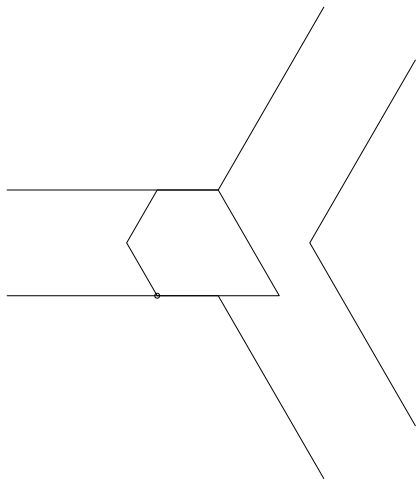


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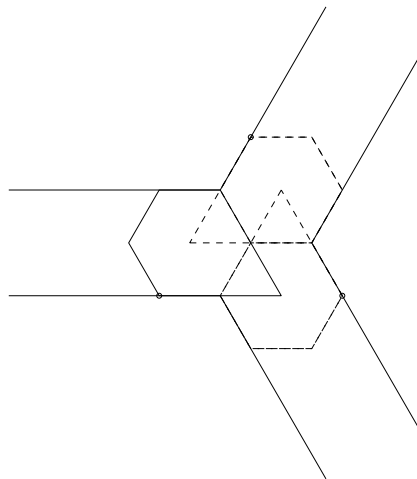


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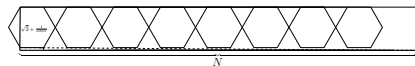


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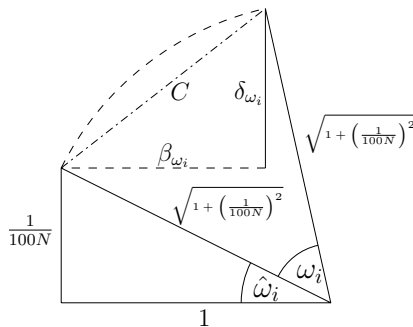


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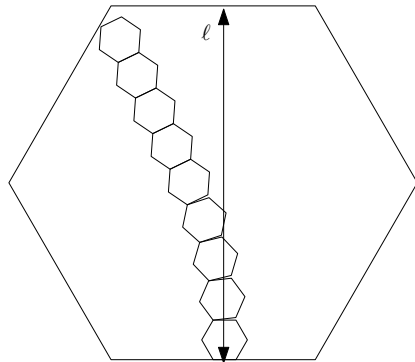


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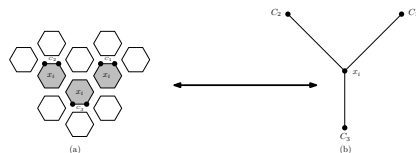


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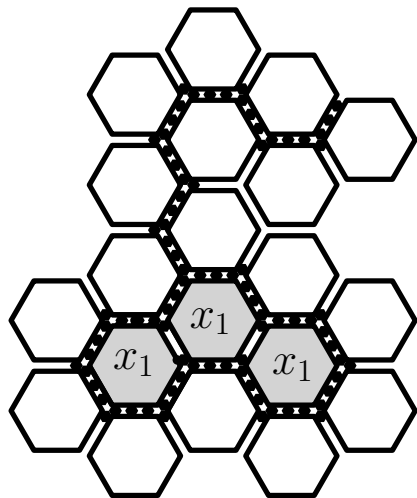


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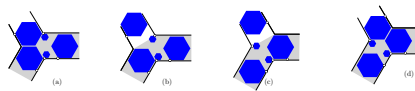


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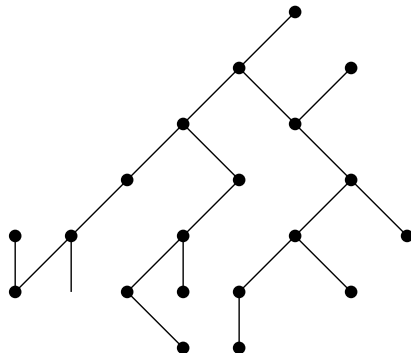


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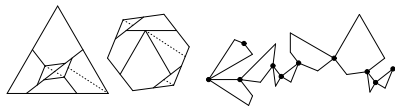


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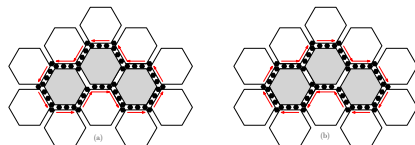


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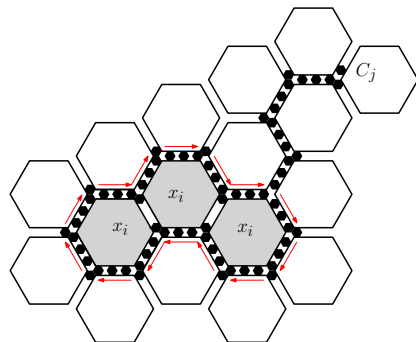


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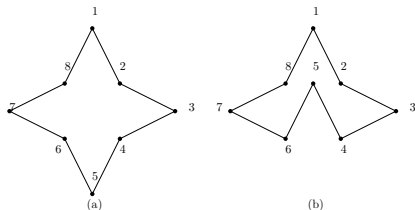


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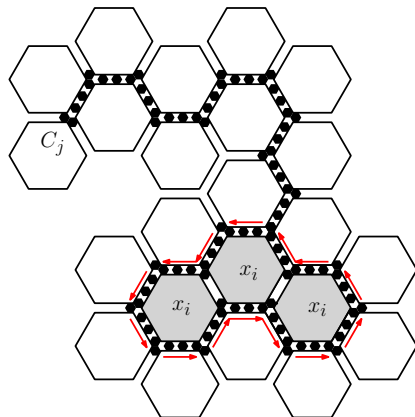


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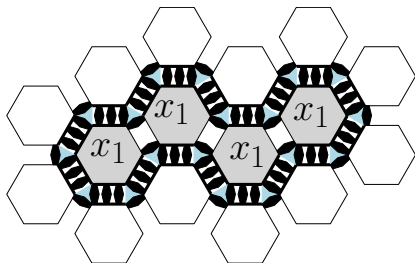


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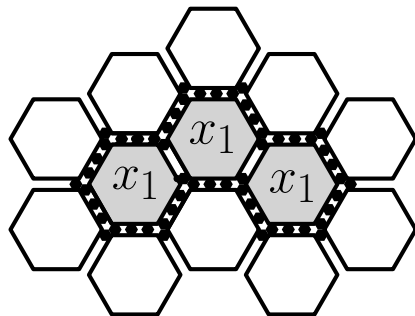


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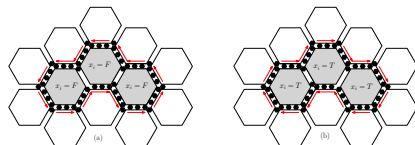


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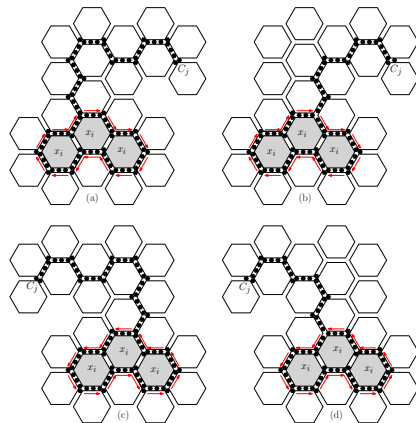


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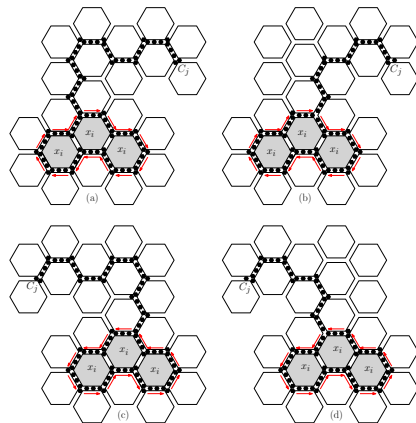


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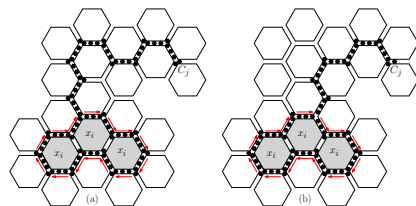


Figure: Caption Text

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Figure: Caption Text

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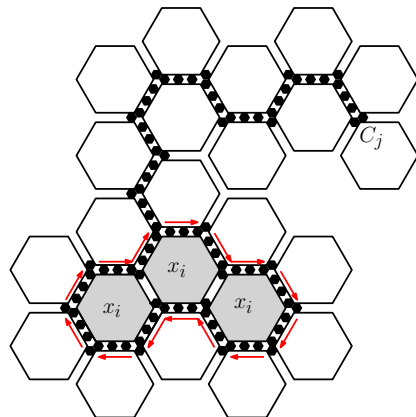


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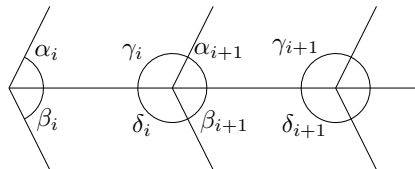


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- * item 2

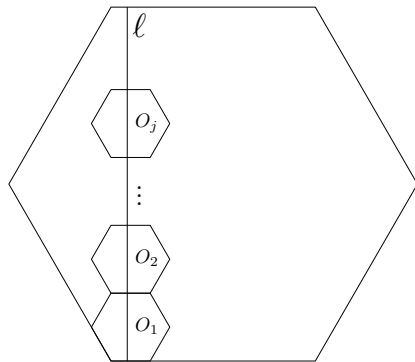


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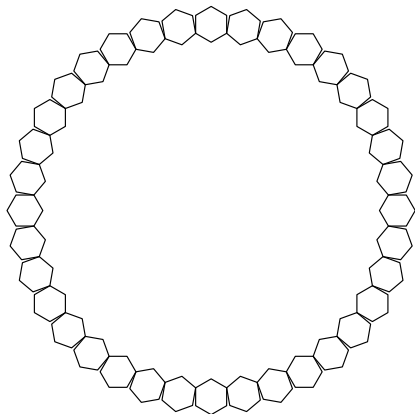


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