

Diagram illustrating the structure of the  $5-4-1-6-2-3$  root system, showing the root system and its associated Dynkin diagram.

The root system is represented by a tree structure of nodes and edges. The root node is labeled  $5-4-1-6-2-3$ . The edges are labeled with the corresponding root values:  $3-2$ ,  $5-4$ ,  $5-6$ ,  $2-1$ , and  $3-4$ .

The Dynkin diagram is shown below the root system, consisting of six nodes arranged in a horizontal line. The nodes are labeled with the root values:  $5-4-1-6-2-3$ . The edges are labeled with the corresponding root values:  $3-2$ ,  $5-4$ ,  $5-6$ ,  $2-1$ , and  $3-4$ .

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