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HAMILTONIAN PATHS ON PLATONIC GRAPHS Exactly One Hamiltonian Cycle Is Called Uniquely Hamiltonian. The Highly Symmetric Platonic Graphs Admit Many Hamiltonian Cycles, But In Some Cases These Cycles Are Very Similar. Call A Platonic Graph Topologically Uniquely Hamiltonian If All Hamiltonian Cycles Are Equivalent Under Rotation And Reflection. It Is Well Known That The Dodecahedron ... 1th, 2024 Hamiltonian Cycles On Symmetrical Graphs Figure 2: Hamiltonian Cycles On The Cube (a), The Octahedron (b), And The Cuboctahedron (c). Among The Platonic Solids, The Octahedron Is The Only One Whose Edge Graph Meets This Criterion. And Indeed, It Is Possible To Cover All 12 Edges With Two Disjoint Hamiltonian Cycles. With A Little Bit Of Experi- 3th, 2024 Tree Graph Representation Of Hamiltonian Paths The Numbers Of Hamiltonian Face Paths For Each Of The Five Platonic Bodies, When Two Initial Faces Are Given, Are Shown In The Table Below. Dodecahedron In The Same Paper, I Have Discussed A Method For Random Generation Of Regular Polyhedra And Its Relation With The Occurrence Of Hamiltonian Paths. 2th, 2024.

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