

Generated Conjectures

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Upper Conjectures:

1. For any cubic_polytope, $\text{number_of_faces} \leq \text{min_maximal_matching_number} + 4$. (Equality: 17 times)
2. For any cubic_polytope, $\text{number_of_faces} \leq \text{min_maximal_matching_number} + \text{domination_number} + 1$. (Equality: 13 times)

Lower Conjectures:

1. For any cubic_polytope, $\text{number_of_faces} \geq \text{diameter} + \text{radius} + 1$. (Equality: 18 times)
2. For any cubic_polytope, $\text{number_of_faces} \geq \text{diameter} + \text{domination_number} + 1$. (Equality: 16 times)
3. For any cubic_polytope, $\text{number_of_faces} \geq \text{min_maximal_matching_number} + \frac{2}{3} * \text{diameter} + \frac{4}{3}$. (Equality: 14 times)