[Input Prompt]

Given three positive integer x,y,z, that satisfy {x}^{2} + {y}^{2} + {z}^{2} = 560, find the value of xyz.
You are not allowed to use your code functionality.

Coarse-grained Evaluation Criteria

Your evaluation should consider factors such as the helpfulness, relevance, accuracy, depth, creativity, and level of detail of their responses.

Domain-Specific Evaluation Criteria

Score 1 The logic of the model's response is completely incoherent.
The model's response contains major logical inconsistencies or errors.
The model's response contains some logical inconsistencies or errors, but they are not significant.
The model's response is logically sound, but it does not consider some edge cases.
Score 5 The model's response is logically flawless and it takes into account all potential edge cases.

Instance-Specific Evaluation Criteria

Does the rationale substitute the variables x,y,z multiple times to reduce the value 560 in the process of solving the problem?

Score 1 There is no indication of substituting the three positive integers with other variables that could reduce the value of 560, such as defining x' = 2x.

Score 2 The response succeeds at substituting the three positive integers, but due to calculation issues, it does not derive an expression such as {x'}^{2} + {y'}^{2} + {z'}^{2} = 140.

Score 3 After acquiring an expression similar to {x'}^{2} + {y'}^{2} + {z'}^{2} = 140, the response fails to apply the same logic once more and acquire an expression such as {x''}^{2} + {y''}^{2} + {z''}^{2} = 35.

Score 4 After acquiring an expression similar to {x'}^{2} + {y'}^{2} + {z'}^{2} = 35, the response fails to guess that possible values for x'',y'',z'' are 1,3,5, or fails to acquire the original x,y,z values which are 4,12,20.

Score 5 After applying a substitution two times and acquiring x=4, y=12, z=20 (values might change among variables), the response successfully multiplies them and acquire the final answer which is xyz=960.