



Problem of the Week

Problem E

A Geometric Problem

The first term in a geometric sequence is a , the second term is b , and the third term is c . The three terms have a sum of 158 and a product of 74088.

Determine all possible ordered triples (a, b, c) .

$$t_n = ar^{n-1}$$

NOTE: The general term of a geometric sequence can be written as $t_n = ar^{n-1}$, where a is first term of the sequence, r is the common ratio between terms, and t_n is the n^{th} term.

