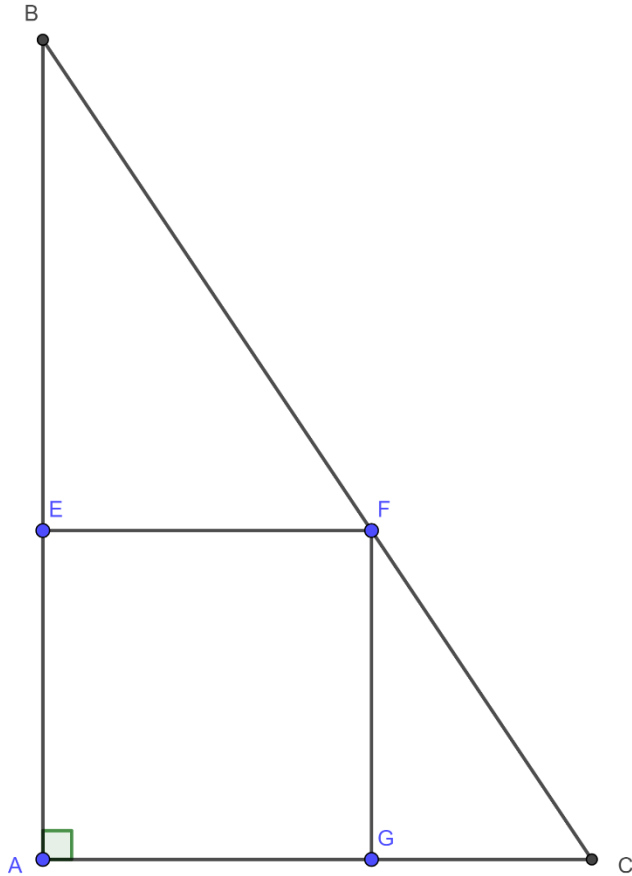


Pi Mu Epsilon

Problem of the Month September 2023



Given right triangle BAC.

AEFG is a square, with

point F in on BC,

$AE = 4$, $BC = 12$,

Find the exact length of BE.

Problem of the Month Rules:

- ⌘ Submissions must include a complete mathematical justification along with the answer.
- ⌘ Submissions may only be made by individuals or groups of two and must be dated.
- ⌘ Due date: September 27, 2023 before 5 p.m. to one of Drs. Poplin, Shoenthal, Ledford, or Hoehner.

To get your own copy, please visit:
<http://www.longwood.edu/mathematics/>