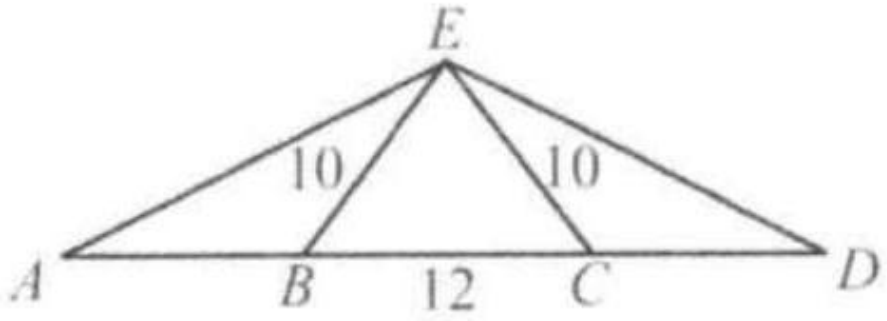
Problem 14

Problem

(2002 AMC 10A Problem 23) Points A, B, C, and D lie on a line, in that order, with $AB = CD$ and $BC = 12$. Point E is not on the line, and $BE = CE = 10$.

The perimeter of $\triangle AED$ is twice the perimeter of $\triangle BEC$. Find AB.

(A) $\frac{15}{2}$
(B) 8
(C) $\frac{17}{2}$
(D) 9
(E) $\frac{19}{2}$



Solution

Solution not available.