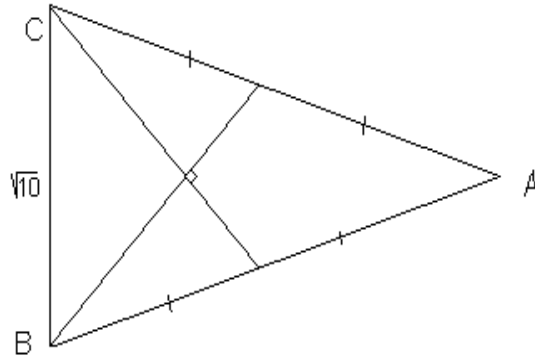


Huddle 2002

1. Eleven years passed between the time when my father's age and mine summed to my present age, and the time when my father's age and mine summed to his present age. How old was my father when I was born?

2. Isosceles triangle ABC has $AB = AC$, base $BC = \sqrt{10}$, and its medians from vertices B and C are perpendicular. Find the length of side AC . (A median in a triangle is the line through a vertex and the midpoint of the opposite side.)



3. What is the minimum value of the function

$$f(x) = |x + 5| + |x - 3| + |x - 7| \text{ ?}$$

4. If $3m + 2n = mn$, where m and n are positive integers, list all possible values of m .