High School Olympiads

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Triangle, side midpoint, orthogonal projections and angles

geometry angle bisector geometry proposed

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angle bisector of $\angle BAC$, right?

treegoner
637 posts

Feb 7, 2005, 9:26 am PM #4

I think so Grobber

BTW, the language in the website is German ?

darij grinberg
6393 posts

Feb 7, 2005, 4:40 pm PM #5

> *grobber wrote:*
> It's from a Balkan Olympiad, I think. Both those bisectors are parallel to the angle bisector of $\angle BAC$, right?

Yes to both of your questions . So, yes for the assertion that both angle bisectors are parallel to the angle bisector of the angle BAC (in fact, this is pretty clear for the angle PMN), and yes, the language is German.

Unfortunately, you are also right about Balkan... Now I see the problem was solved on http://www.kalva.demon.co.uk/balkan/bsoln/bsol002.html , and yes, the solution is the same as mine (is there another way? probably no...).

darij

arniszt

Sep 7, 2008, 9:11 pm PM #6

I write here my solution: