## Addendum to the solution for problem 4

One can actually prove more; namely, $|D E|>|A D|=|A E|=2|A B|=2|A C|=$ $2|B C|$. This follows because $|\angle A D E|=|\angle A E D|>|\angle D A E=\angle B A C|$ and the result which states that in a triangle, the larger angle is opposite the longer side.

