

Problem 21: similarityoftriangle.pdf p12 prob 9

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.