

## Problem 15: similarityoftriangle.pdf p8 prob 2

**Paraphrased problem:** Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. Ensure the final answer carries units (l, m). If rounding is required, state the precision used.

### Solution

- Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.
- Step 2: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.
- Step 3: Use triangle similarity to equate ratios of corresponding sides.
- Step 4: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.
- Step 5: Substitute the given values to find the requested length/ratio/angle.

### Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.
- Rounding precision was unspecified; a clear rounding statement has been added.