

Polygon Measurement

Short-answer questions about length, angle, and area.

Measuring Carefully

Adjust the figures to find the requested measurements.

Geogebra link: <https://tube.geogebra.org/m/gjf28er6>

Problem 1 In figure above, when point C is adjusted so that BC is perpendicular to AC , $AC = \boxed{2.1}$.

Geogebra link: <https://tube.geogebra.org/m/a888zyw2>

Problem 2 In $\triangle ABC$ above, the height to base \overline{AC} is $\boxed{3.585}$.

Hint: You may move point D . A height is the length of an altitude, which must be perpendicular to the line containing the chosen base.

Geogebra link: <https://tube.geogebra.org/m/cta9hbuf>

Problem 3 In $\triangle ABC$ above, the height to base \overline{AC} is $\boxed{3.511}$.

Hint: You may move point D . A height is the length of an altitude, which must be perpendicular to the line containing the chosen base.

Geogebra link: <https://tube.geogebra.org/m/q32gyaud>

Problem 4 In $\triangle ABC$ above, move point D to make the following measurements:

(a) When \overline{BD} is a median, $AD = \boxed{2.25}$.

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(b) When \overline{BD} is a angle bisector, $AD = \boxed{2.77}$.

(c) When \overline{BD} is a median, $AD = \boxed{6.45}$.
