Measuring by Sight

Short-answer measuring problems.

Instructions

Adjust the figures to fit the given conditions within **eyeball accuracy**. Enter the requested measurements.

Problem 1 *Geogebra link:* `https://tube.geogebra.org/m/gjf28er6`

In figure above, when point C is adjusted so that $\overline{BC}$ is perpendicular to $\overline{AC}$, $AC = \boxed{2.09}$.

Hint: *When two lines are* perpendicular*, they cross to create four congruent angles.*

Hint: *Use the corner of a piece of paper.*

Problem 2 *Geogebra link:* `https://tube.geogebra.org/m/a888zyw2`

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.*

Problem 3 *Geogebra link:* `https://tube.geogebra.org/m/kta9hbuf`

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.*

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