

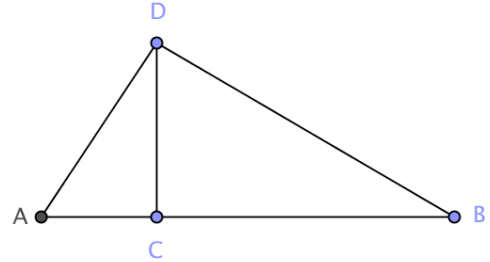
Geometry

More Trig Problems (3)

Goals

I can use trigonometry to solve problems.

1. In the triangle at shown, $m\angle DAC = 35^\circ$, $\overline{AD} = 5$ cm, $m\angle ADB = 90^\circ$ and $m\angle ACB = 90^\circ$. Find the measure of \overline{BC} .



2. A water-lily originally 10 cm above the water surface is blown 50 cm sideways by a strong wind as shown in the drawing. Find the depth of the pond and the angle, to the nearest tenth of a unit, through which the water-lily was deflected. Justify with clear and complete work. Round answers to the nearest tenth of a unit.

