

Round angles to the nearest degree and side lengths to one place after the decimal.

1. In $\triangle ABC$, $\angle B = 90^\circ$, $b = 20.5$ cm, $a = 12.3$ cm. Solve the triangle. Include a diagram as part of your solution. Use only primary trig ratios.
2. The point $(-3, 7)$ lies on the terminal arm for angle θ . Determine the primary trig ratios for angle θ . Leave as exact answers.
3. Determine the value(s) of θ for $0^\circ \leq \theta \leq 360^\circ$, given that $\cos \theta = -0.8971$. Show necessary work.