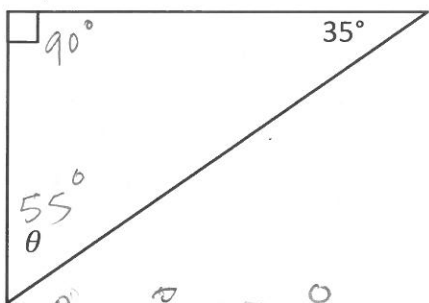


Assignment 1: Introduction to Triangles

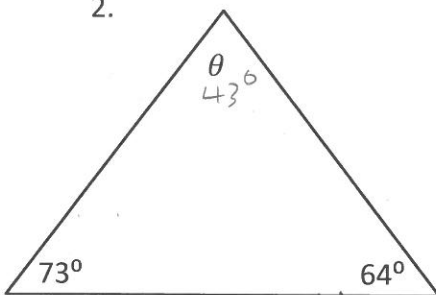
Find the size of the unknown angle in each triangle below. Round your final answers to the nearest hundredth (2 decimal places).

1.



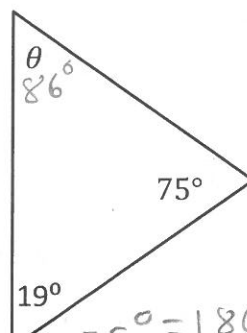
$$\begin{aligned}\theta + 90^\circ + 35^\circ &= 180^\circ \\ \theta &= 180^\circ - 125^\circ \\ \theta &= \underline{\underline{55^\circ}}\end{aligned}$$

2.



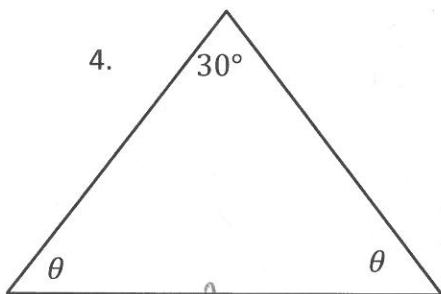
$$\begin{aligned}\theta + 73^\circ + 64^\circ &= 180^\circ \\ \theta &= 180^\circ - 73^\circ - 64^\circ \\ \theta &= 180^\circ - 137^\circ \\ \theta &= \underline{\underline{43^\circ}}\end{aligned}$$

3.



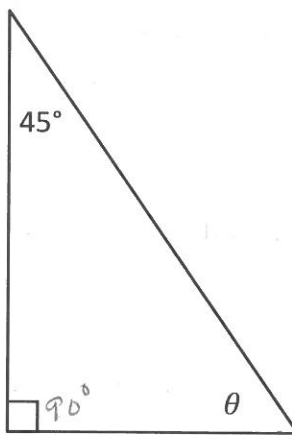
$$\begin{aligned}\theta + 19^\circ + 75^\circ &= 180^\circ \\ \theta &= 180^\circ - 19^\circ - 75^\circ \\ \theta &= 180^\circ - 94^\circ \\ \theta &= \underline{\underline{86^\circ}}\end{aligned}$$

4.



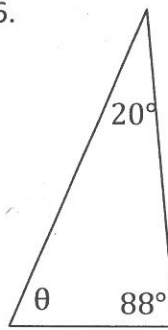
$$\begin{aligned}\theta + \theta + 30^\circ &= 180^\circ \\ 2\theta &= 180^\circ - 30^\circ \\ 2\theta &= 150^\circ \\ \theta &= \frac{150^\circ}{2} \\ \theta &= \underline{\underline{75^\circ}}\end{aligned}$$

5.



$$\begin{aligned}\theta + 90^\circ + 45^\circ &= 180^\circ \\ \theta &= 180^\circ - 90^\circ - 45^\circ \\ \theta &= 180^\circ - 135^\circ \\ \theta &= \underline{\underline{45^\circ}}\end{aligned}$$

6.



$$\begin{aligned}\theta + 88^\circ + 20^\circ &= 180^\circ \\ \theta &= 180^\circ - 88^\circ - 20^\circ \\ \theta &= 180^\circ - 108^\circ \\ \theta &= \underline{\underline{72^\circ}}\end{aligned}$$