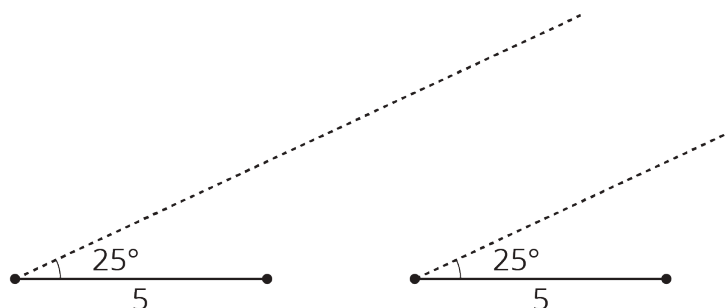


3. A triangle has sides of length 7 cm, 4 cm, and 5 cm. How many unique triangles can be drawn that fit that description? Explain or show your reasoning.

4. A triangle has one side that is 5 units long and an adjacent angle that measures 25° . The two other angles in the triangle measure 90° and 65° . Complete the two diagrams to create two *different* triangles with these measurements.



5. Is it possible to make a triangle that has angles measuring 90 degrees, 30 degrees, and 100 degrees? If so, draw an example. If not, explain your reasoning.