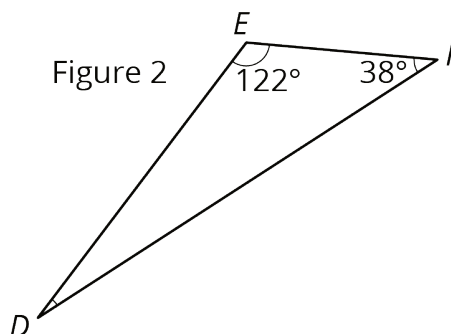
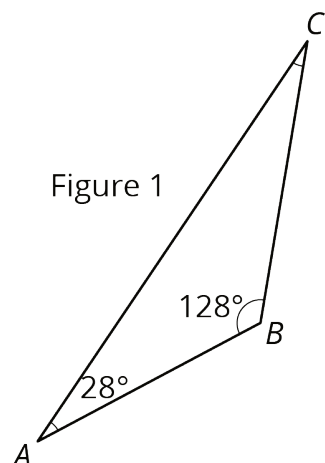
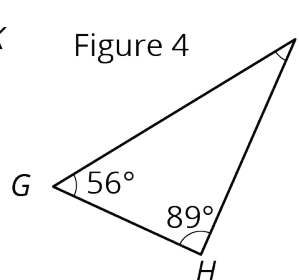
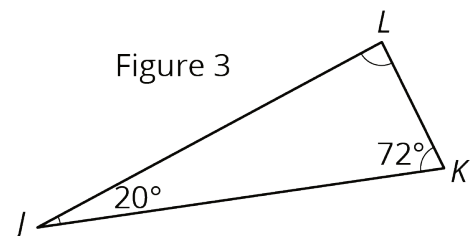


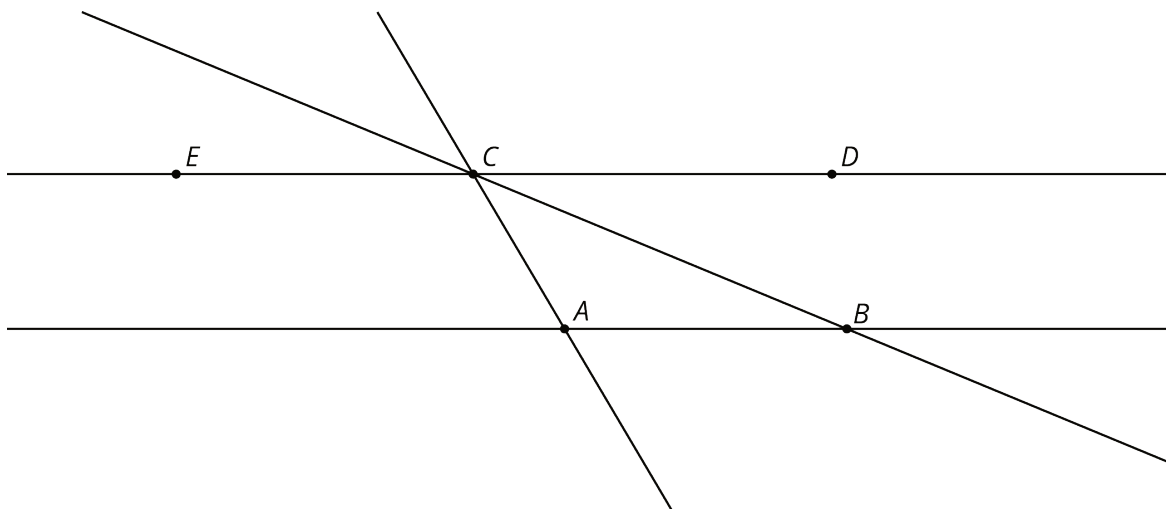
## Lesson 16 Practice Problems

1. For each triangle, find the measure of the missing angle.



2. Is there a triangle with *two* right angles? Explain your reasoning.

3. In this diagram, lines  $AB$  and  $CD$  are parallel.

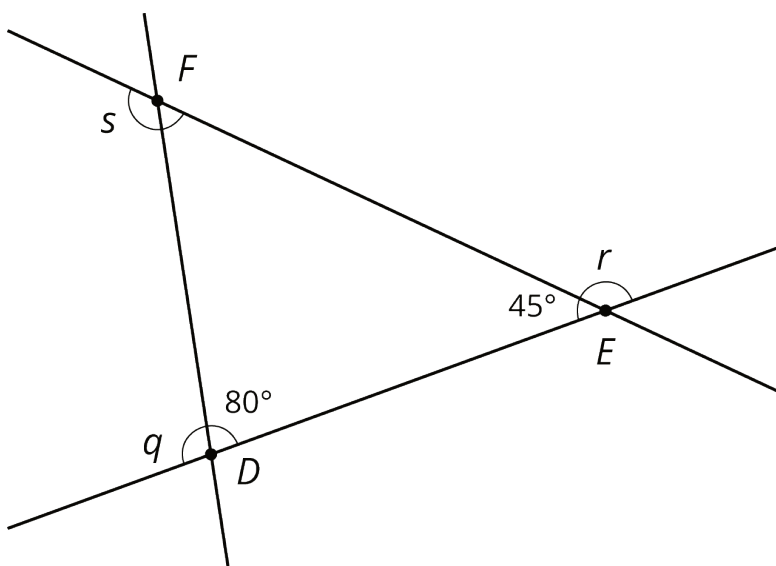


Angle  $ABC$  measures  $35^\circ$  and angle  $BAC$  measures  $115^\circ$ .

- a. What is  $m\angle ACE$ ?
- b. What is  $m\angle DCB$ ?
- c. What is  $m\angle ACB$ ?

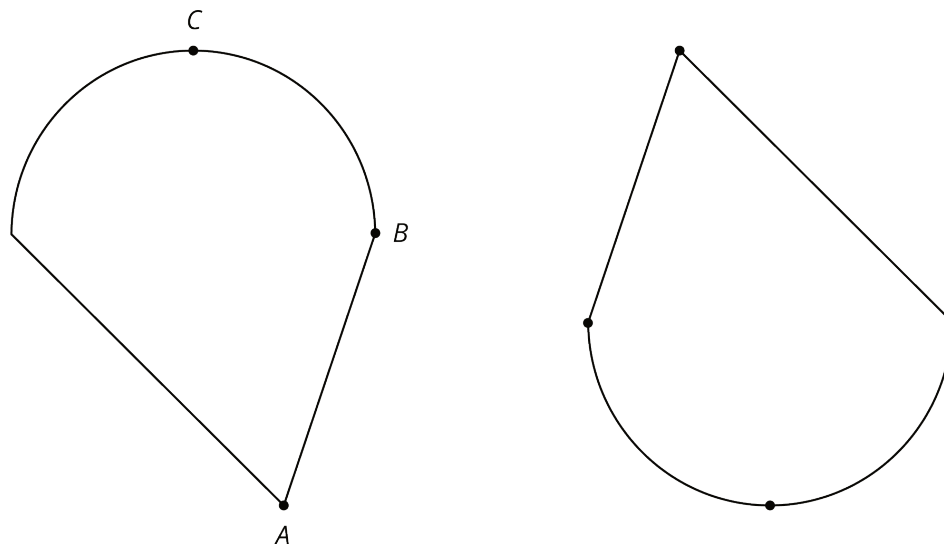
4. Here is a diagram of triangle  $DEF$ .

- a. Find the measures of angles  $q$ ,  $r$ , and  $s$ .
- b. Find the sum of the measures of angles  $q$ ,  $r$ , and  $s$ .
- c. What do you notice about these three angles?



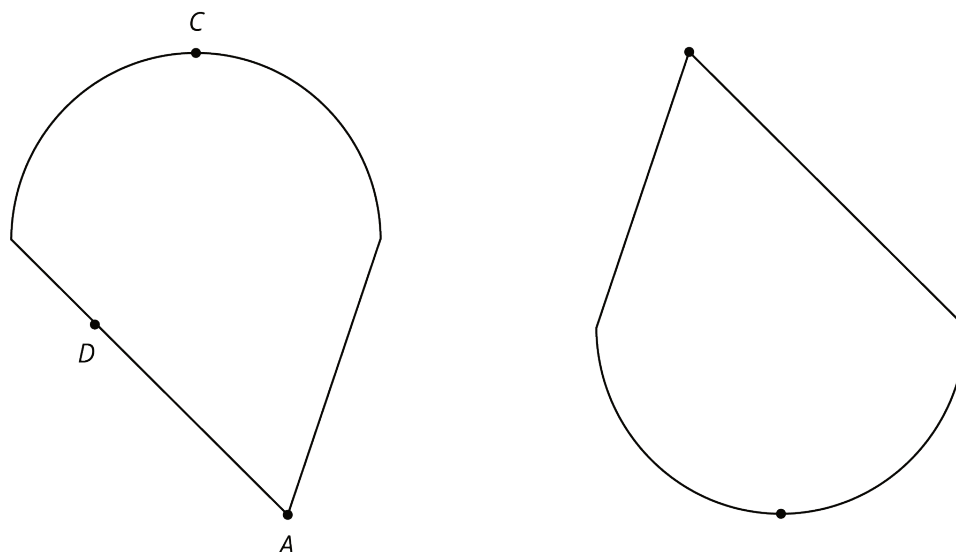
5. The two figures are congruent.

a. Label the points  $A'$ ,  $B'$  and  $C'$  that correspond to  $A$ ,  $B$ , and  $C$  in the figure on the right.



b. If segment  $AB$  measures 2 cm, how long is segment  $A'B'$ ? Explain.

c. The point  $D$  is shown in addition to  $A$  and  $C$ . How can you find the point  $D'$  that corresponds to  $D$ ? Explain your reasoning.



(From Unit 1, Lesson 13.)