### Lesson 16 Practice Problems

1. For each triangle, find the measure of the missing angle.
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1. Is there a triangle with *two* right angles? Explain your reasoning.
2. In this diagram, lines $AB$ and $CD$ are parallel.
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* Angle $ABC$ measures $35^{∘}$ and angle $BAC$ measures $115^{∘}$.
	1. What is $m∠ACE$?
	2. What is $m∠DCB$?
	3. What is $m∠ACB$?
1. Here is a diagram of triangle $DEF$.
	1. Find the measures of angles $q$, $r$, and $s$.
	2. Find the sum of the measures of angles $q$, $r$, and $s$.
	3. What do you notice about these three angles?
* 
1. The two figures are congruent.
	1. Label the points $A^{′}$, $B^{′}$ and $C^{′}$ that correspond to $A$, $B$, and $C$ in the figure on the right.
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	1. If segment $AB$ measures 2 cm, how long is segment $A^{′}B^{′}$? Explain.
	2. 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.
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* (From Unit 1, Lesson 13.)



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