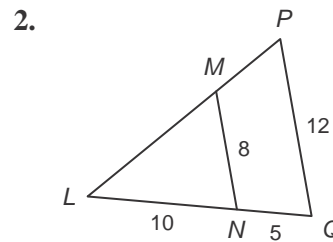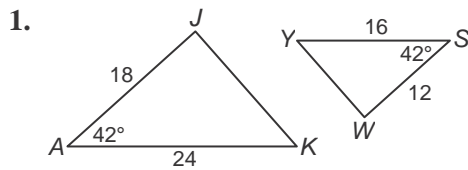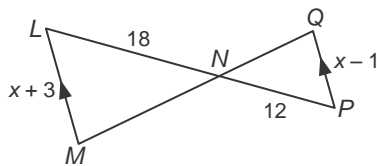## 7-3 Practice

Similar Triangles

Determine whether the triangles are similar. If so, write a similarity statement. If not, what would be sufficient to prove the triangles similar? Explain your reasoning.
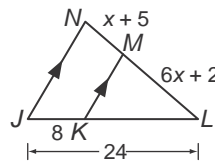
1.

2.

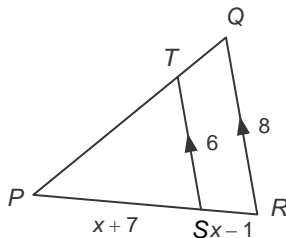**ALGEBRA Identify the similar triangles. Then find each measure.**
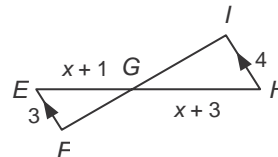
3. *LM*, *QP*

4. *NL*, *ML*

5. *PS*, *PR*

6. *EG*, *HG*

7. INDIRECT MEASUREMENT A lighthouse casts a 128-foot shadow. A nearby lamppost that measures 5 feet 3 inches casts an 8-foot shadow.

   a. Write a proportion that can be used to determine the height of the lighthouse.

   b. What is the height of the lighthouse?

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Lesson 7-3