Lesson 14 Practice Problems

1. Use the diagram to find the measures of each angle. Explain your reasoning.
   a. $m \angle ABC$
   b. $m \angle EBD$
   c. $m \angle ABE$

2. Lines $k$ and $\ell$ are parallel, and the measure of angle $ABC$ is 19 degrees.
   a. Explain why the measure of angle $ECF$ is 19 degrees. If you get stuck, consider translating line $\ell$ by moving $B$ to $C$.
   b. What is the measure of angle $BCD$? Explain.
3. The diagram shows three lines with some marked angle measures.

Find the missing angle measures marked with question marks.

4. The two figures are scaled copies.
   
   a. What are some ways that you can tell they are scaled copies?
   
   b. What is the scale factor that takes Figure 1 to Figure 2?
   
   c. What is the scale factor that takes Figure 2 to Figure 1?