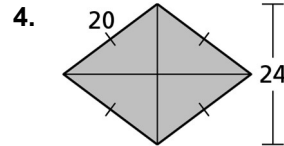
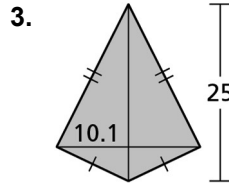
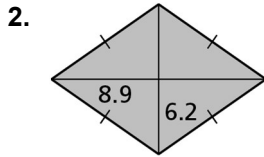
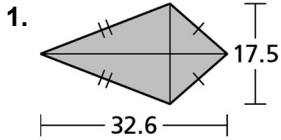


11.3 Extra Practice

In Exercises 1–4, find the area of the kite or rhombus.



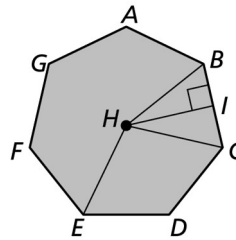
In Exercises 5–8, find the given angle measure for regular heptagon $ABCDEFGH$.

5. $m\angle BHC$

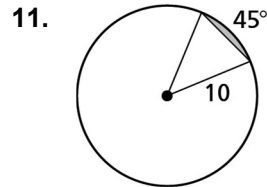
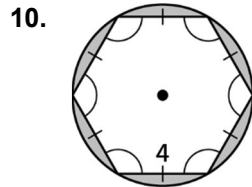
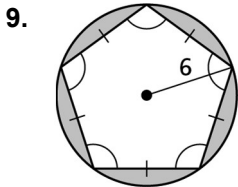
6. $m\angle BHI$

7. $m\angle IBH$

8. $m\angle EHB$



In Exercises 9–11, find the area of the shaded region.



12. The area of a kite is 384 square feet. One diagonal is three times as long as the other diagonal. Find the length of each diagonal.
13. The area of a rhombus is 484 square millimeters. One diagonal is one-half as long as the other diagonal. Find the length of each diagonal.
14. You are laying concrete around a gazebo that is a regular octagon with a radius of 8 feet. The concrete will form a circle that extends 15 feet from the vertices of the octagon.
 - a. Sketch a diagram that represents this situation.
 - b. What is the area of the concrete to the nearest square foot?
15. The perimeter of a regular 11-gon is 16.5 meters. Is this enough information to find the area? If so, find the area and explain your reasoning. If not, explain why not.