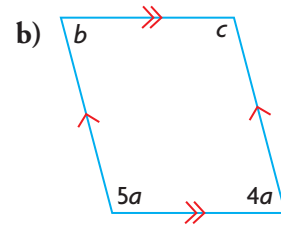
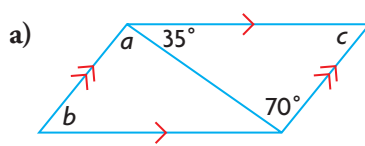
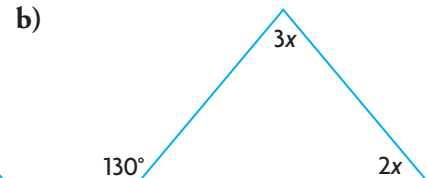
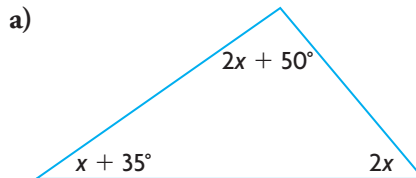


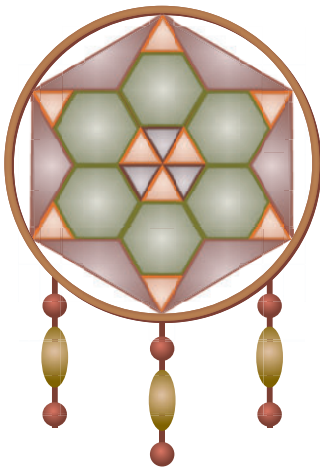
1. Determine the values of a , b , and c .



2. Determine the value of x in the following diagrams.

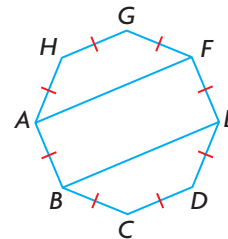


3. a) Construct a pair of parallel lines and a transversal using a protractor and a straight edge.
 b) Label your sketch, and then show by measuring that the alternate interior angles in your sketch are equal.
 c) Identify all the pairs of equal angles in your sketch.
4. Joyce is an artist who uses stained glass to create sun catchers, which are hung in windows. Joyce designed this sun catcher using triangles and regular hexagons. Determine the measure of the interior angles of each different polygon in her design.

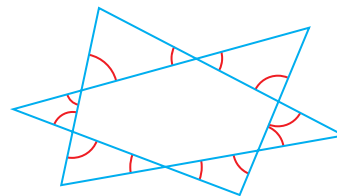


5. $ABCDEFGH$ is a regular octagon.

- a) Draw an exterior angle at vertex C .
 b) Determine the measure of the exterior angle you drew.
 c) Prove: $AF \parallel BE$



6. Determine the sum of the indicated angles.



WHAT DO You Think Now? Revisit **What Do You Think?** on page 69. How have your answers and explanations changed?