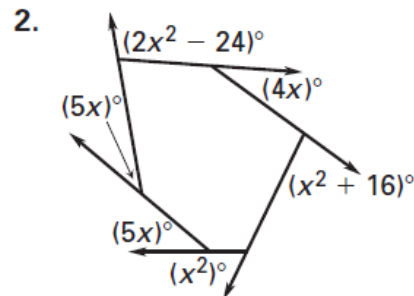
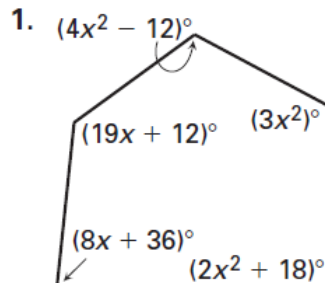


Challenge: Skills and Applications

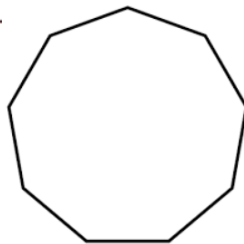
Find the possible values of x .



4. A convex heptagon has four interior angles that measure 95° , 118° , 146° , and 160° , respectively. If the remaining interior angles are congruent, what is the measure of each remaining interior angle?

5. A convex 14-gon has six interior angles that each measure 164° . If the remaining interior angles are congruent, what is the measure of each remaining interior angle?

7. Polygon $ABCDEFGHI$ is a regular nonagon. If \overleftrightarrow{BC} and \overleftrightarrow{FG} intersect at point K , find $m\angle BKF$.



8. Polygon $OPQRSTUVWXYZ$ is a regular dodecagon. If \overleftrightarrow{QR} and \overleftrightarrow{XY} intersect at point J , find $m\angle QJY$.

