

Practice with Interior and Exterior Angles of Polygons

Formulas:

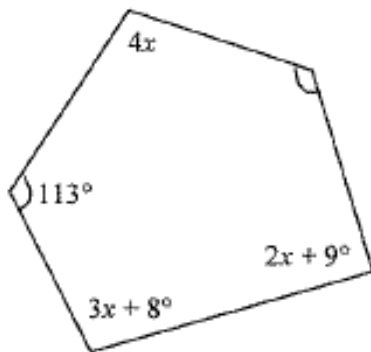
Interior Angle Sum of a Regular Polygon:

Exterior Angle of a Regular Polygon:

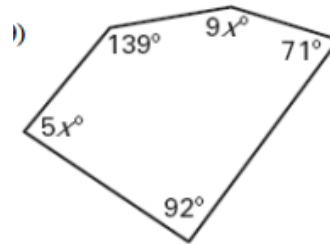
1. Five angles of a hexagon measure 100° , 110° , 120° , 130° , 140° . Find the measure of the sixth angle.

2. The measure of one interior angle of a polygon is 144° . How many sides does it have?

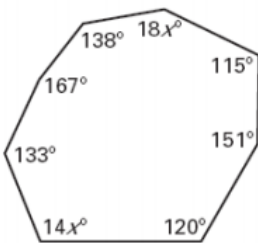
3. Find the value of x :



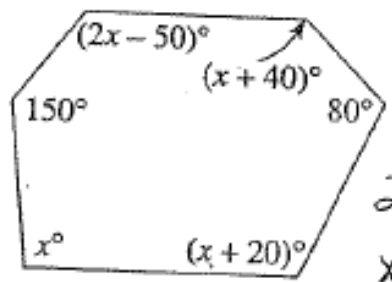
4. Find the value of x :



5. Find the value of x

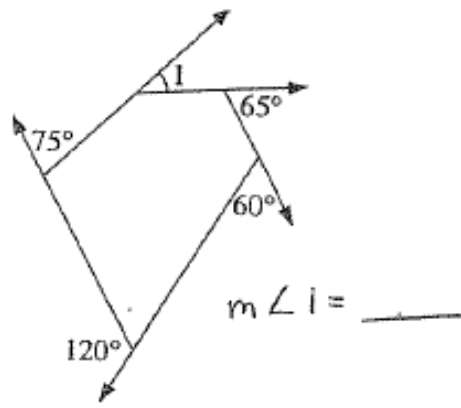


6. Find the value of x .

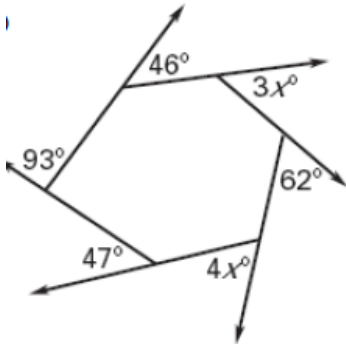


7. What is the measure of each interior angle and each exterior angle of a regular 17-gon?

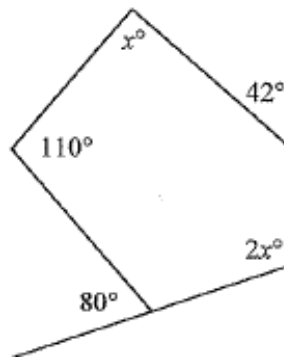
8. Find the $m\angle 1$



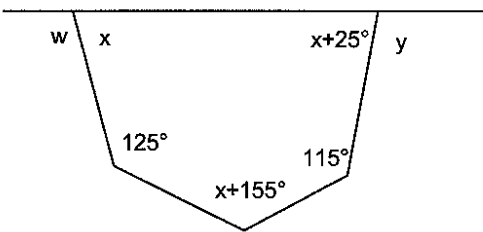
9. Find the value of x .



10. Find the value of x :



11. Find w and y :



12. What is the exterior angle sum of a 500-gon?

Homework: Interior and Exterior Angles of Polygons

Formulas:

Interior Angle Sum of a Regular Polygon:

Exterior Angle of a Regular Polygon:

1. Find the measure of the interior angles of a. decagon b. 18-gon c. 25- gon	2. Find the measure of each interior angle of: a. octagon b. 13- gon c. 16 – gon
3. Find the measure of each exterior angle in a: a. hexagon b. dodecagon c. 19-gon	4. The