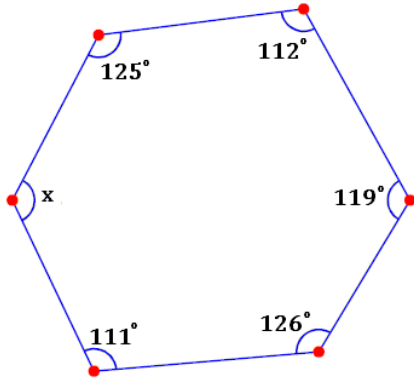


Worksheet 3: Angles and Polygons

Show all work for full credit.

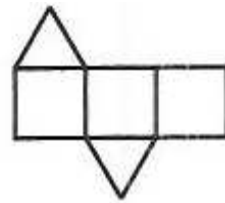
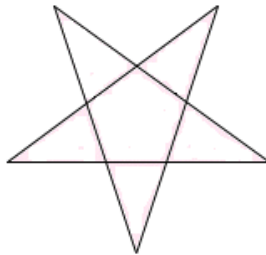
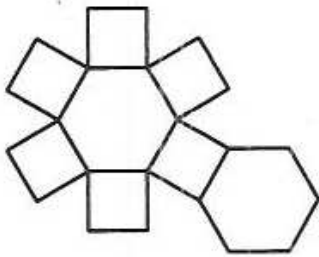
1. Find the measure of $\angle x$ in the following polygon. Show how you got your answer.



2. In a regular polygon, an interior angle has measure 165.6° . How many sides does the polygon have?

3. Find the measure of each interior angle of a regular decagon (10-gon).

4. Several nets for polyhedra are shown. Name the polyhedron that would result from each of them. (You do not need to specify right or oblique.)



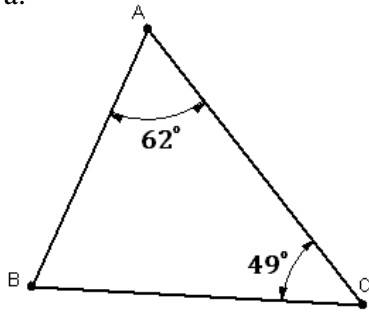
a. _____

b. _____

c. _____

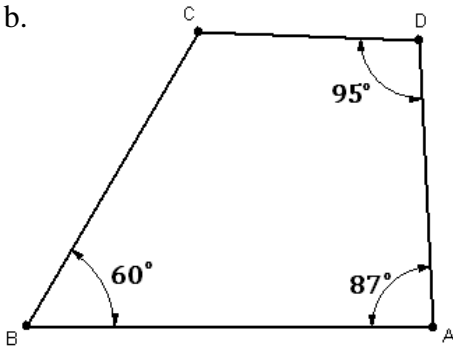
5. Give the size of the missing angles in the polygons. Show how you got your answers.
Hint: You may need to use your knowledge of parallel lines.

a.



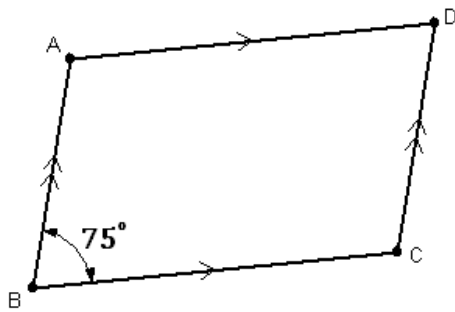
Triangle

b.



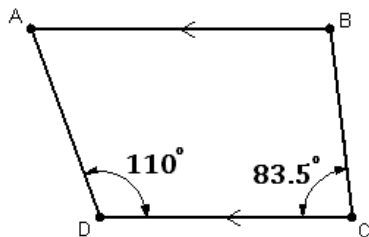
Quadrilateral

c.



Parallelogram

d.



Trapezoid

