

Independent Practice: INTERIOR ANGLES OF POLYGONS

NAME: _____

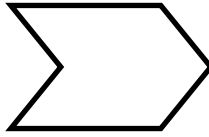
DATE: _____

PERIOD: _____

For #1 – 4, classify each polygon by its number of sides then label it as convex or concave.

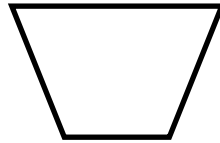
1. Classify: _____

convex OR concave?



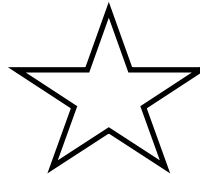
2. Classify: _____

convex OR concave?



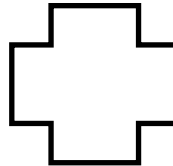
3. Classify: _____

convex OR concave?



4. Classify: _____

convex OR concave?



For #5 – 8, for each of the regular polygons, find the sum of the measures of the interior angles, and then find the measure of each interior angle.

5. Sum = _____ Pentagon:

Each = _____

6. Sum = _____ Nonagon:

Each = _____

7. Sum = _____ 18-gon:

Each = _____

8. Sum = _____ 32-gon:

Each = _____

Independent Practice: **INTERIOR ANGLES OF POLYGONS**

For # 9 – 10, find the number of sides if a polygon has the given measure for each interior angle.

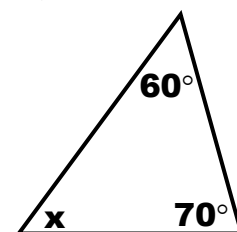
9. $n =$ _____ 170°

10. $n =$ _____ 162°

For #11 – 14, determine the sum of the interior angles then find the missing angle.

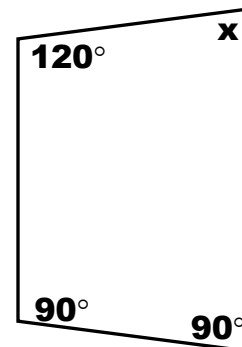
11. sum = _____

$x =$ _____



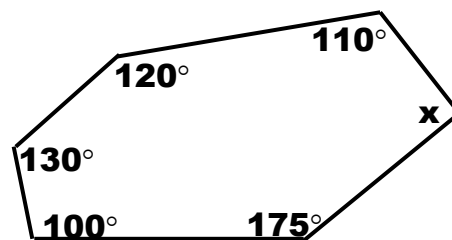
12. sum = _____

$x =$ _____



13. sum = _____

$x =$ _____



14. sum = _____

$x =$ _____

