Name :_____ Date: _____

Period: _____ Mr. Valentino

Sum of the Interior Angles of a Polygon (Bonus) Homework

Find the interior angle sum for each polygon.

1. Regular 20-gon

2. Regular 13-gon

3. Is there a regular polygon with an interior angle sum of 9000°? If so, what is it?

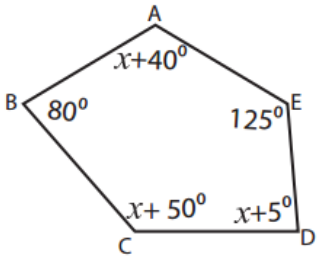
Find the measure of one interior angle in each polygon.

4. Regular 30-gon

5. Regular 15-gon

Find the unknown angles for each irregular polygon

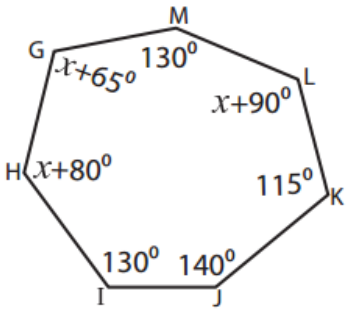
6.



Sum of the interior angles = _____

x = ___ ;∠A = ___ ;∠C = ___ ;∠D = ___

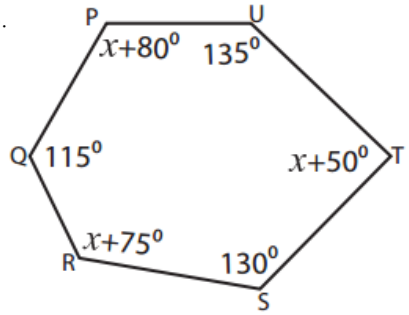
7.



Sum of the interior angles = _____

x = ___ ;∠G = ___ ;∠H = ___ ;∠L = ___

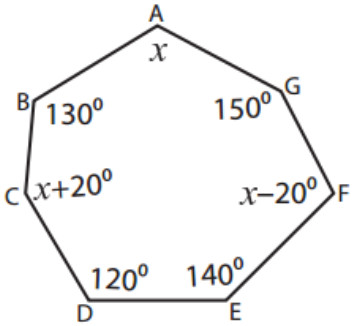
8.



Sum of the interior angles = _____

x = ___ ;∠P = ___ ;∠R = ___ ;∠T = ___

9.



Sum of the interior angles = _____

x = ___ ;∠A = ___ ;∠C = ___ ;∠F = ___