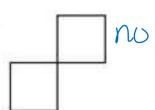
PRACTICE AND PROBLEM SOLVING

Tell whether each figure is a polygon. If it is a polygon, name it by the number of its sides.

16.



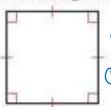


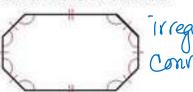


Tell whether each polygon is regular or irregular. Tell whether it is concave or convex.



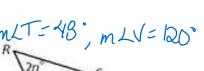
20.





Int 6n+5n+2n=360

22. Find the measure of each interior angle of quadrilateral RSTV. $R = 48^{\circ}$ mLV = 120°



- 23. Find the measure of each interior angle of a regular 18-gon.
- 24. Find the sum of the interior angle measures of a convex heptagon.
- Find the measure of each exterior angle of a regular nonagon.
- A pentagon has exterior angle measures of $5\alpha^{\circ}$, $4\alpha^{\circ}$, $10\alpha^{\circ}$, $3\alpha^{\circ}$, and $8\alpha^{\circ}$. Find the value of α .



23) (13-2) 180

 $7 \frac{24}{900^{\circ}} (7-2)180 \quad 25) \frac{360}{9} \pm \frac{40^{\circ}}{40^{\circ}}$

Name the convex polygon whose interior angle measures have each given sum.

35. 540° 36. 900° 900 = 180 (n-2) n = 7 hertagon Multi-Step An exterior angle measure of a regular polygon is given. Find the number of its sides and the measure of each interior angle.

39. 120°

40. 72°

41. 36°

42. 24°

360 7 5 sides