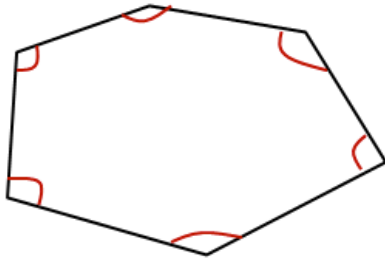
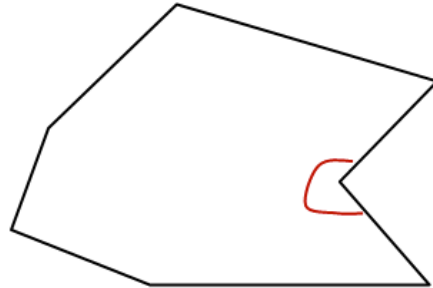


Sect. 2.4 Angle Properties in Polygons

- Polygon** – a closed shape that consists of line segments or sides.
- there are two types of polygons, convex and concave.



Convex Polygon



Concave Polygon

Convex polygon – each interior angle measures less than 180° .

Concave polygon – at least one interior angle is a reflex angle measuring more than 180° but less than 360° .

Worksheet Investigation

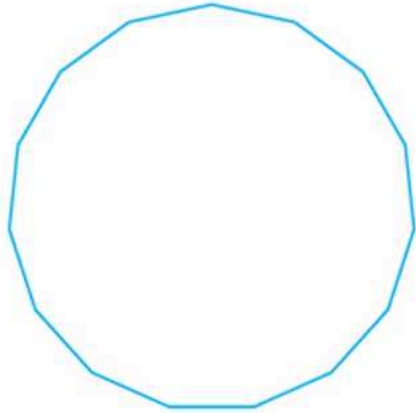
Example 2: Outdoor furniture and structures like gazebos sometimes use a regular hexagon in their building plan. Determine the measure of each interior angle of a regular hexagon



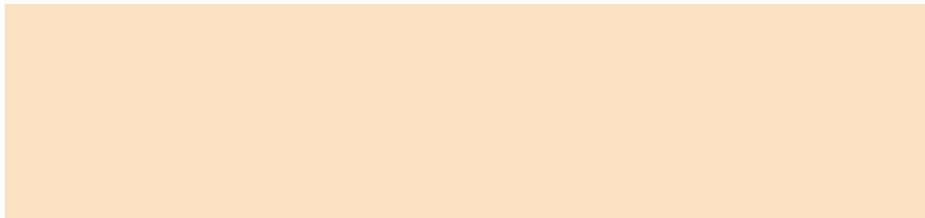
Answer:

Your Turn

Determine the measure of each interior angle of a regular 15-sided polygon (a pentadecagon).



Answer



Make a conjecture about the measure of each interior angle of a regular polygon.

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Assign p. 99 – 100

#2, 3, 6, 7, 10, 11, 13, 16