

# Worksheet: Exterior Angles of a Polygon



**Q1:** What is the sum of the measures of the exterior angles of a hexagon?

- A  $720^\circ$
- B  $360^\circ$
- C  $540^\circ$
- D  $180^\circ$

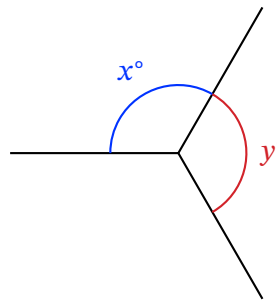
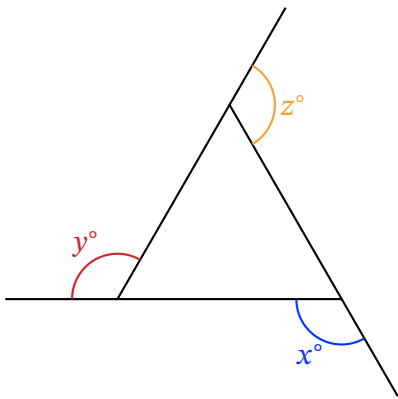


Question Video

**Q2:** Olivia is experimenting with the exterior angles of a triangle. She colors the angles, cuts them out, and sticks them together as seen in the figure. Will angle  $z$  fit in the space to complete the circle?



Question Video



- A No
- B Yes

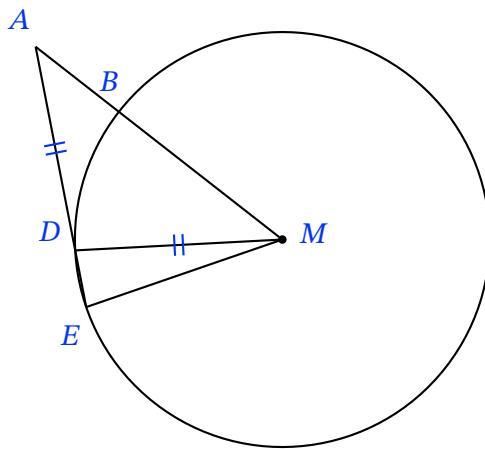
**Q3:** What is the measure of the exterior angle of an equilateral triangle?

- A 120°
- B 180°
- C 60°
- D 30°



Question Video

**Q4:** In the figure  $m\angle DMA = 41^\circ$ . What are  $m\angle EDM$  and  $m\angle EMD$ ?

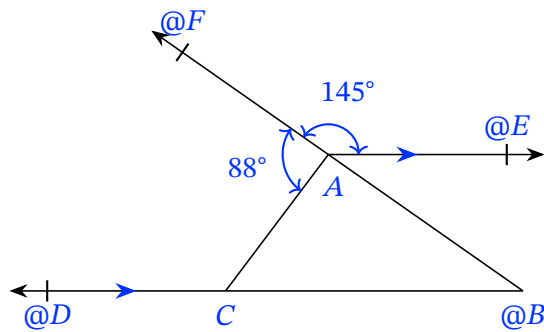


- A 82°, 49°
- B 82°, 82°
- C 82°, 16°
- D 41°, 16°

**Q5:** What is the sum of the exterior angles of a triangle?

- A  $360^\circ$
- B It is different for different triangles.
- C  $180^\circ$

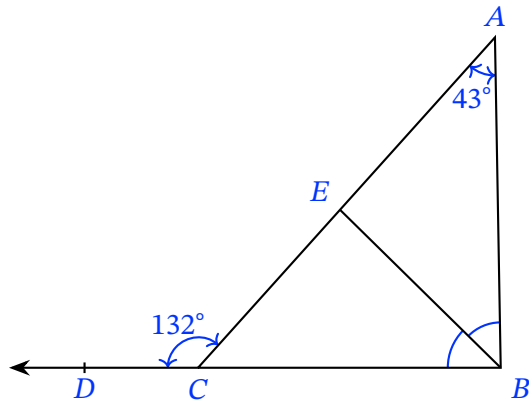
**Q6:** In the figure, use the information given to determine  $m\angle AC@D$ .



Question Video

- A  $127^\circ$
- B  $92^\circ$
- C  $88^\circ$
- D  $145^\circ$

Q7: Determine  $m\angle BEC$ .



- A  $67^\circ$
- B  $92.5^\circ$
- C  $87.5^\circ$
- D  $132^\circ$