

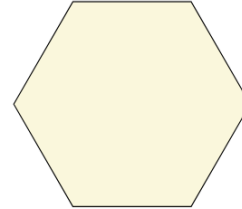


Apply interior and exterior angle relationships for polygons

1 pentagon

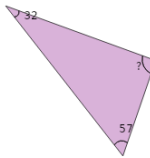
A 5	B 6	C 3
D 7	E 2	

2 Name the type of shape



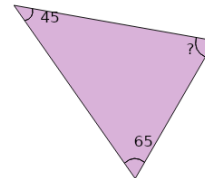
- A Regular B Irregular

3 Find the equation that will help you calculate the missing angle of the triangle



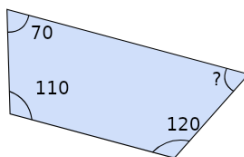
- A $32 + 57 + ? = 90$ B $32 + 57 + ? = 180$ C $32 + 57 + ? = 360$
D $2(32 + 57 + ?) = 180$ E $32 - 57 - ? = 360$

4 Find the missing angle of the triangle



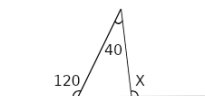
- A 50 B 90 C 70
D 80 E 60 F 55

5 Find the missing angle of the trapezoid given that the interior angles must add up to 360°



- A 60 B 76 C 64
D 68 E 56 F 72

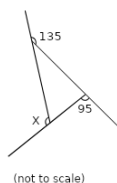
6 What is angle X?



(not to scale)

- A 95 B 110 C 100
D 80 E 85 F 75

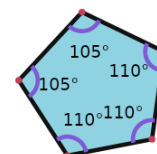
7 What is angle X?



(not to scale)

- A 140 B 130 C 135
D 150 E 145

8 What is the rule for the sum of the interior angles of a polygon?



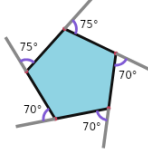
- A All angles sum to $(5 - 3) \times 180^\circ$ B All angles sum to 540° C All interior angles sum to $(5 - 2) \times 180^\circ$
D All angles sum to 180° E All angles sum to $(5 - 2) \times 360^\circ$ F All angles sum to 720°



Apply interior and exterior angle relationships for polygons

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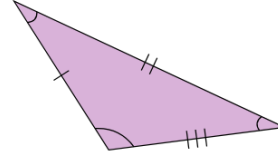
What is the rule for the sum of the exterior angles of a polygon?



- | | | |
|--|---|--|
| A All exterior angles sum to 180° | B All exterior angles sum to $(5 - 2) \times 180^\circ$ | C All exterior angles sum to 360° |
| D All exterior angles sum to 540° | E All exterior angles sum to 270° | F All exterior angles sum to 720° |

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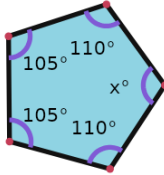
What would the sum of the inside angles on this shape be?



- | | | |
|---------------|---------------|---------------|
| A 330° | B 120° | C 360° |
| D 240° | E 90° | F 180° |

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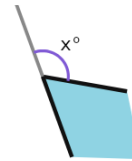
What is the missing interior angle?



- | | | |
|---------------|---------------|---------------|
| A 50° | B 130° | C 70° |
| D 150° | E 170° | F 110° |

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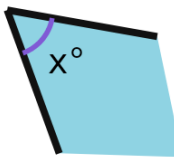
This is a regular triangle. What is the exterior angle?



- | | | |
|--------------|--------------|---------------|
| A 90° | B 72° | C 120° |
| D 45° | E 60° | |

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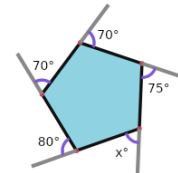
This is a regular triangle. What is the interior angle?



- | | | |
|---------------|---------------|--------------|
| A 60° | B 120° | C 90° |
| D 108° | E 135° | |

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What is the missing exterior angle?



- | | | |
|--------------|---------------|--------------|
| A 5° | B 105° | C 45° |
| D 65° | E 85° | F 25° |