

Polygons Practice

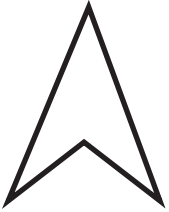
Name: _____

Date: _____

Question 1

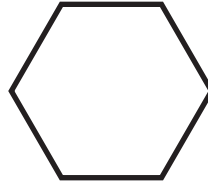
Name the polygon and determine if it is convex or concave

I.



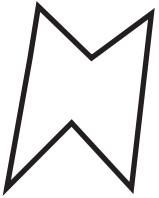
polygon name :
classification :

II.



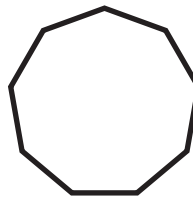
polygon name :
classification :

III.



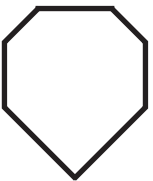
polygon name :
classification :

IV.



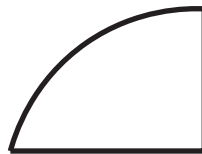
polygon name :
classification :

V.



polygon name :
classification :

VI.



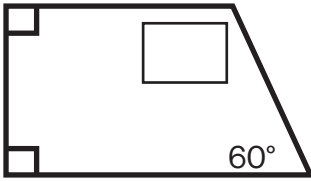
polygon name :
classification :

Polygons Practice

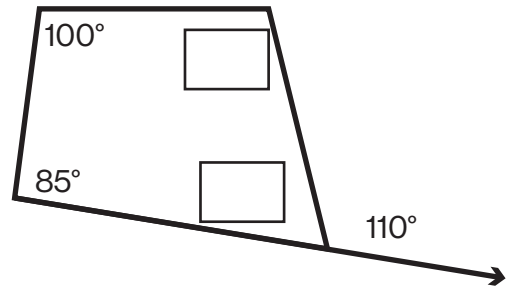
Question 2

Determine the unknown angle measurements

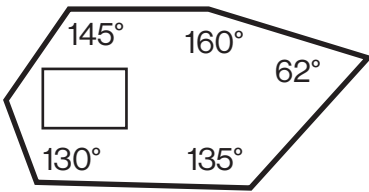
I.



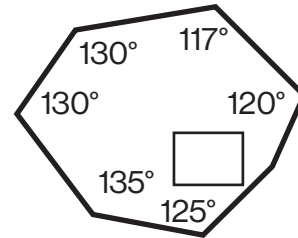
II.



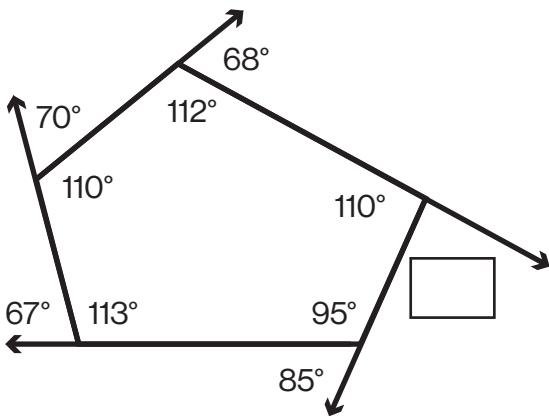
III.



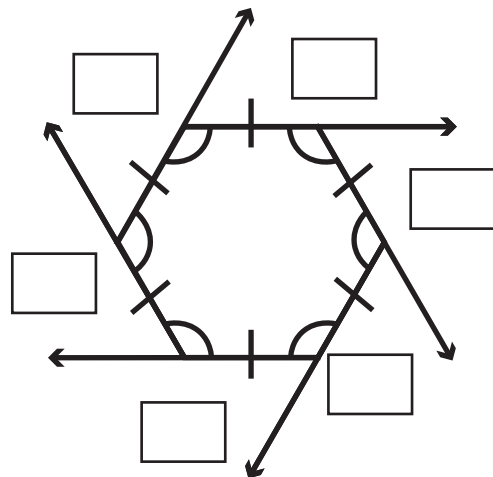
IV.



V.



VI.



Polygons Practice

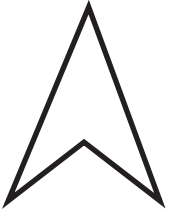
Name: _____ **Key** _____

Date: _____

Question 1

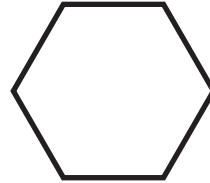
Name the polygon and determine if it is convex or concave

I.



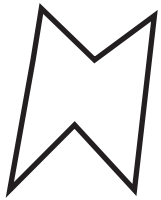
polygon name: **quadrilateral**
classification: **concave**

II.



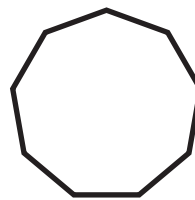
polygon name: **hexagon**
classification: **convex**

III.



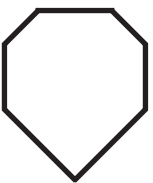
polygon name: **hexagon**
classification: **concave**

IV.



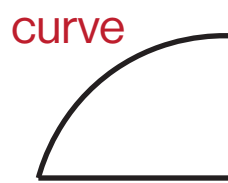
polygon name: **nonagon**
classification: **convex**

V.



polygon name: **heptagon**
classification: **convex**

VI.



not a polygon

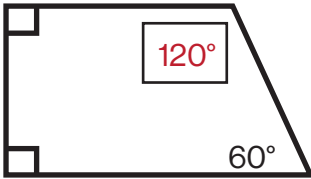
polygon name: **N/A**
classification: **N/A**

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Question 2

Determine the unknown angle measurements

I.

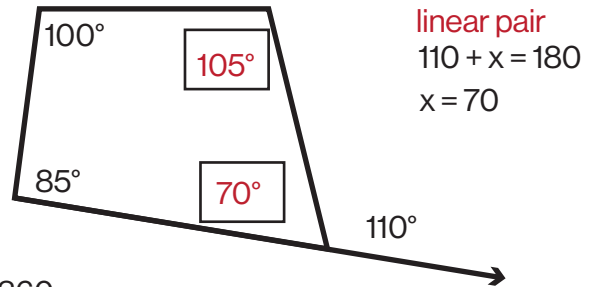


$$(4 - 2) \cdot 180 = 360$$

$$90 + 90 + 60 + x = 360$$

$$x = 120$$

II.

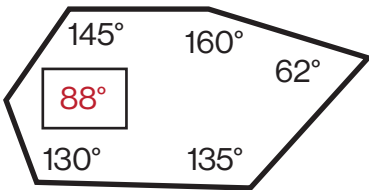


$$(4 - 2) \cdot 180 = 360$$

$$100 + 85 + 70 + x = 360$$

$$x = 105$$

III.

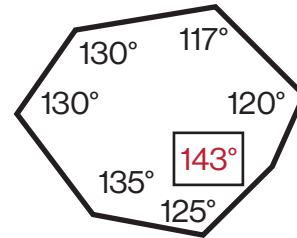


$$(6 - 2) \cdot 180 = 720$$

$$145 + 160 + 62 + 135 + 130 + x = 720$$

$$x = 88$$

IV.

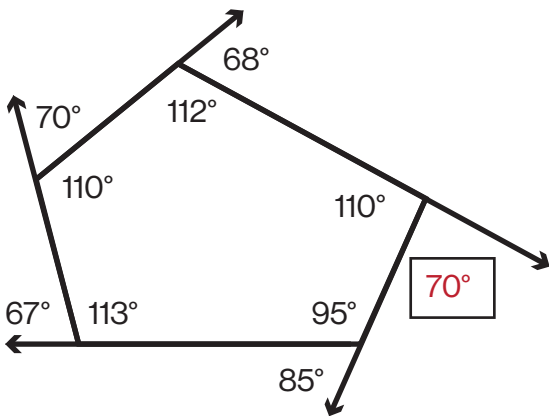


$$(7 - 2) \cdot 180 = 900$$

$$125 + 135 + 130 + 130 + 117 + 120 + x = 900$$

$$x = 143$$

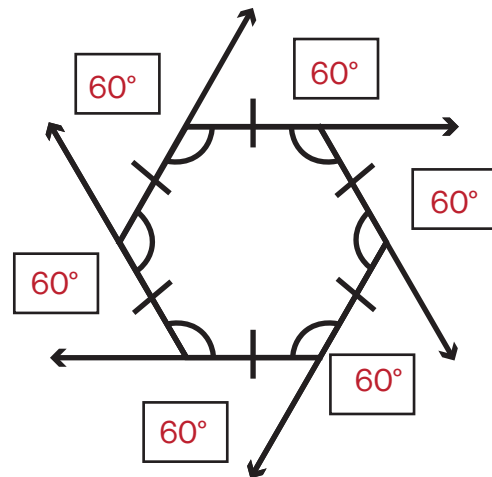
V.



$$85 + 67 + 70 + 68 + x = 360$$

$$x = 70$$

VI.



$$360 / 6 = 60$$