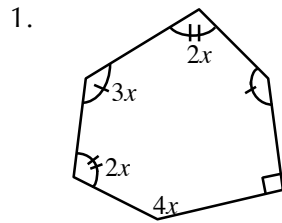
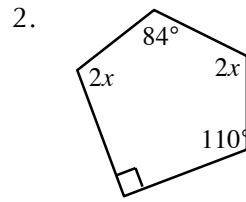


Polygon Sum and Exterior Angle Sum Theorem

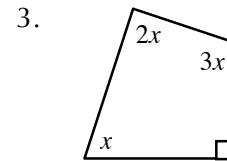
Directions: For each polygon, solve for x and y.



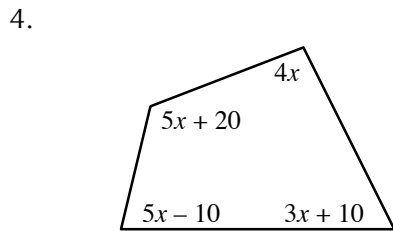
x = 45



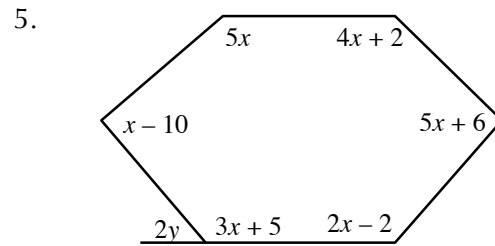
x = 64



x = 45



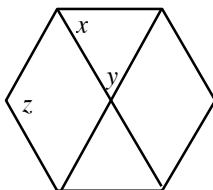
x = 20



x = 35.95

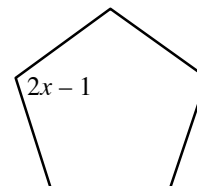
y = 33.58

6. This is a regular hexagon



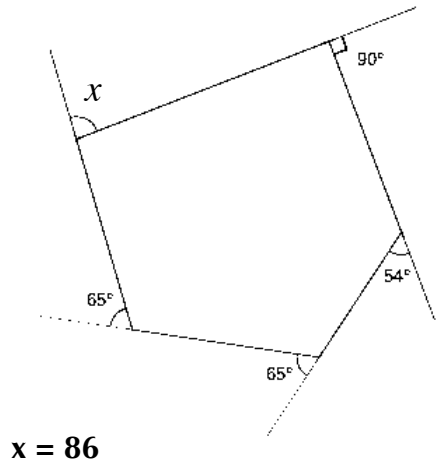
x = 60
y = 60
z = 120

7. This is a regular pentagon

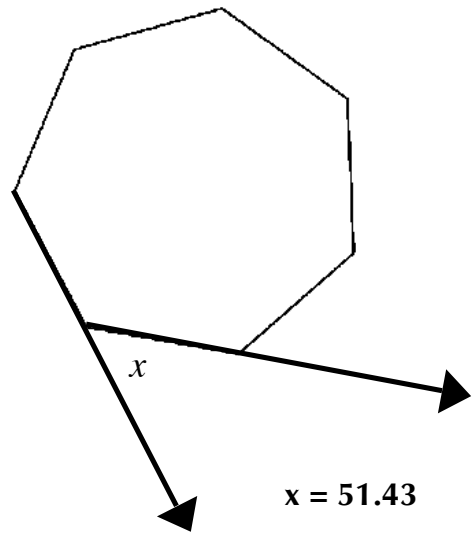


x = 54.5

8.



9. This is a regular heptagon.



10. An exterior angle of an n -sided regular polygon has a measure of 60° . How many sides does the polygon have?

$$n = 6$$