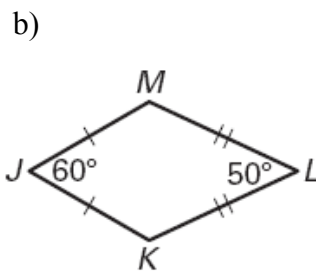
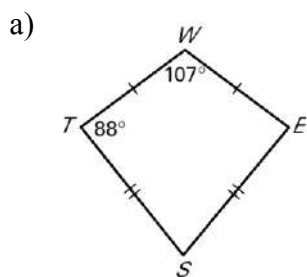


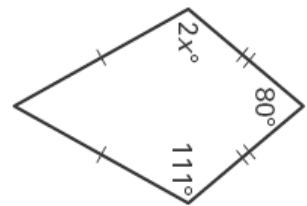
Find the measures of the angles in each problem below:

1. Find the sum of the interior angles in a 7-gon.
2. Find the sum of the interior angles of an 8-gon.
3. Find the size of each of the interior angles in a regular 12-gon.
4. Find the size of each of the interior angles in a regular 15-gon.
5. Find the size of each of the exterior angles of a regular 17-gon.
6. Find the size of each of the exterior angles of a regular 21-gon.
7. Each exterior angle of a regular polygon is 10° . How many sides does the polygon have?
8. Each exterior angle of a regular n-gon is 15° . How many sides does this figure have?
9. Each angle of a regular n-gon measures 156° . How many sides does this figure have?
10. Each angle of a regular n-gon measures 144° . How many sides does this figure have?

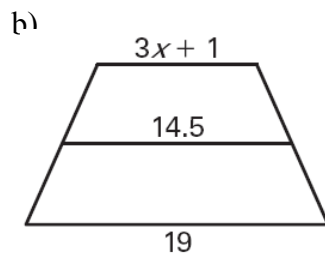
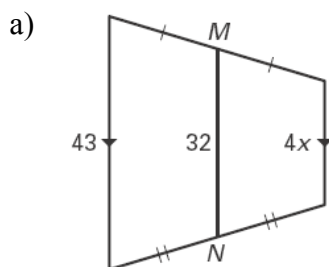
11. Find the missing angles:



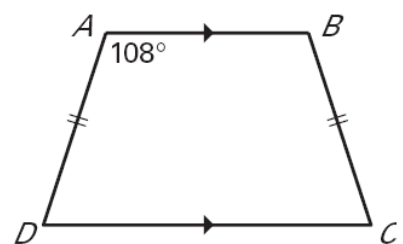
12. Solve for x:



13. Solve for x:

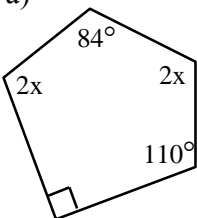


14. Find the missing angles:

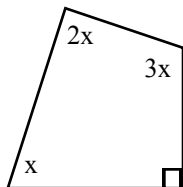


15. Find x in each of the diagrams below

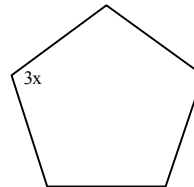
a)



b)



c) regular pentagon



16. True or False: a) Every rectangle a square. b) Every rhombus is a trapezoid

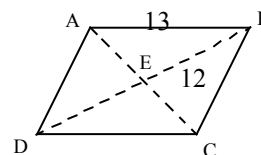
17. Draw a sketch of a quadrilateral with these properties: the diagonals are perpendicular and equal in length. What is a more specific name for this shape?

Drawing:

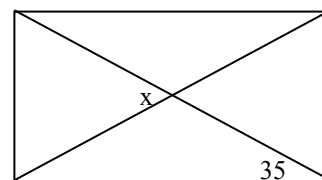
Name: _____

18. List two properties of the diagonals of a rectangle? _____

19. Find the length of AC in the rhombus shown where AB = 13 and EB = 12.



20. Find x in the rectangle



21. Give the most specific name for the quadrilateral. *Explain* your reasoning.

