

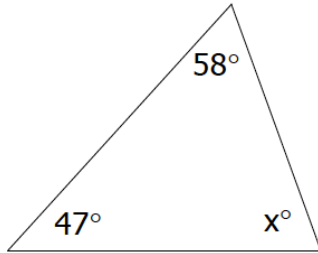
HOMEWORK 17

February 28, 2021

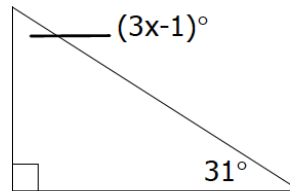
*I would like to remind you that the homework should be done on a separate piece of paper.
There is not enough space on this handout to show all work. **You must show all steps!***

1. Find the value of x . Show ALL steps!

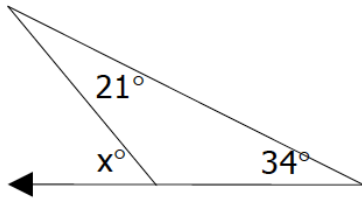
a)



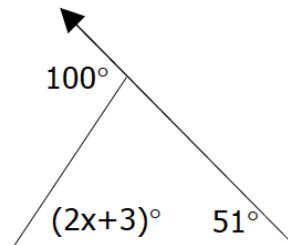
b)



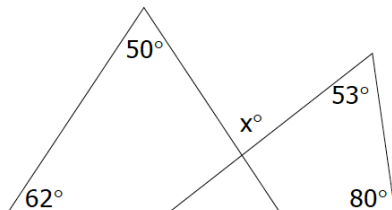
c)



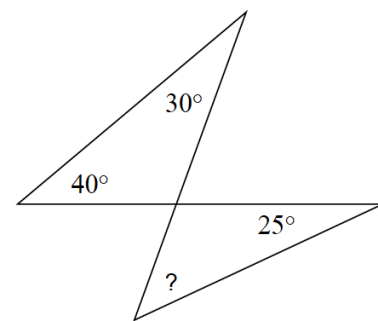
d)



e)

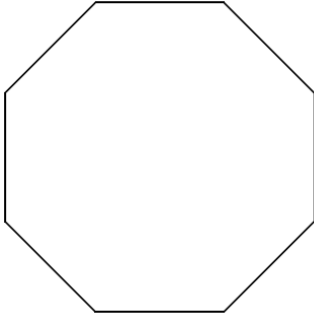


f)

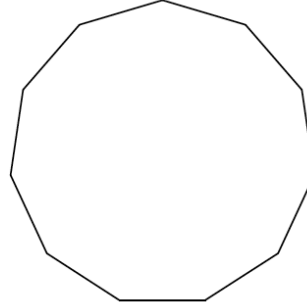


2. Find the sum of the interior angles for each of the polygons below:

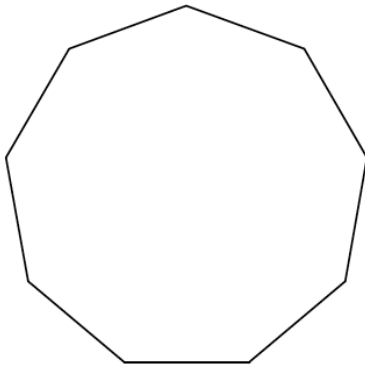
a)



b)



c)



d) A polygon with 27 sides

e) A polygon with 43 sides

f) A polygon with 99 sides

3. Calculate. **Do not use a calculator!!! Show ALL steps!**

$$\frac{\left(\left(3\frac{7}{12} - 2\frac{11}{18} + 2\frac{1}{24} \right) \cdot 1\frac{5}{31} - \frac{3}{52} \left(3\frac{1}{2} + \frac{5}{6} \right) \right) \cdot 1\frac{7}{13}}{\frac{19}{84} \div \left(5\frac{13}{42} - 2\frac{13}{28} + \frac{5}{24} \right) + 1\frac{2}{27} - \frac{1}{3} \cdot \frac{4}{9}} =$$

4. Victoria walks along the edges of a rectangular pool from point A to B to C to D, a distance of 38 meters. Julia walks along the edges of the same pool from B to C to D to A, distance of 31 meters. What is the perimeter of the pool in meters?



5. The six-digit number $63X904$ is an even multiple of 27. What digit does X represent?