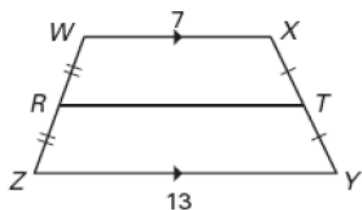


Name: _____

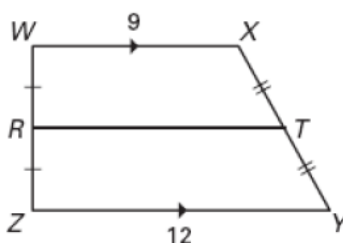
Trapezoids

1) Find the length of the mid-segment RT

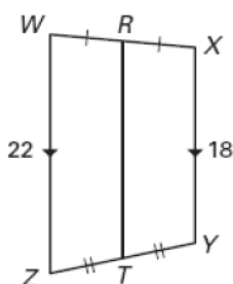
1)



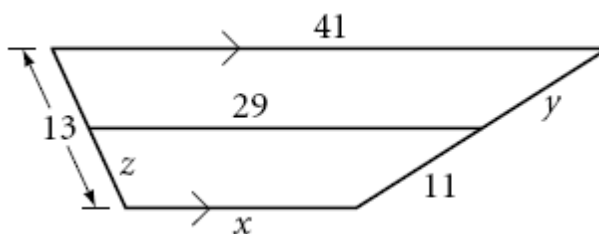
2)



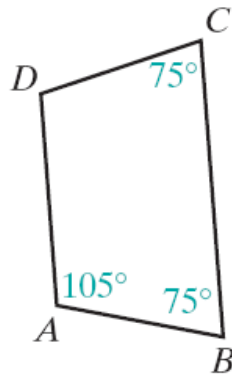
3)



2) Each figure below shows a mid segment, find the values of x, y and z.



- 3) In quadrilateral ABCD, $m\angle A = 105^\circ$, $m\angle B = 75^\circ$, and $m\angle C = 75^\circ$.



- 1) Is ABCD a parallelogram? Justify your answer
- 2) Is ABCD a trapezoid? Justify your answer.
- 3) Is ABCD an isosceles trapezoid? Justify your answer
- 4) If $AB = x$, $BC = 2x - 1$, $CD = 3x - 8$, and $DA = x + 1$, find the measure of each side of the quadrilateral.

- 4) Given: \overline{AC} bisects $\angle BAD$

$$\overline{AB} \cong \overline{BC}$$

Prove: ABCD is a trapezoid

