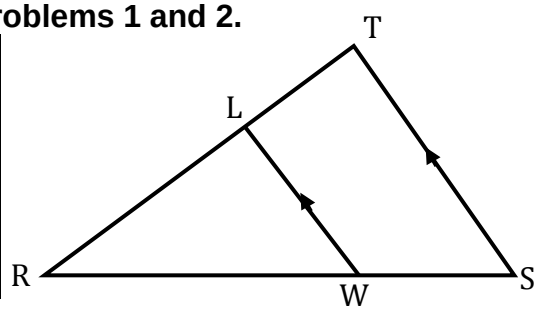
NAME_____**DATE**_____**PER.**_____

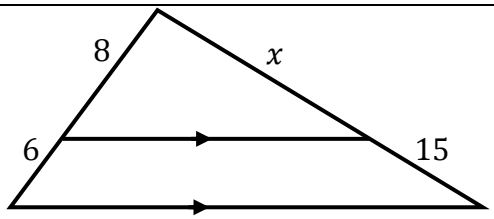
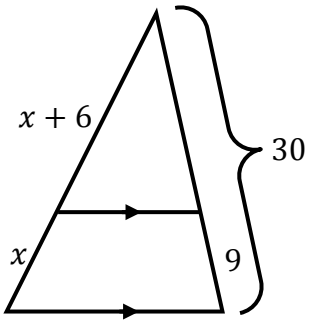
8.4: PARALLEL LINES & PROPORTIONAL SEGMENTS

Use the figure below to complete each statement in problems 1 and 2.

1. _____	$\frac{RW}{WS} = \frac{RL}{\quad}$
2. _____	$\frac{RW}{RS} = \frac{\quad}{RT}$

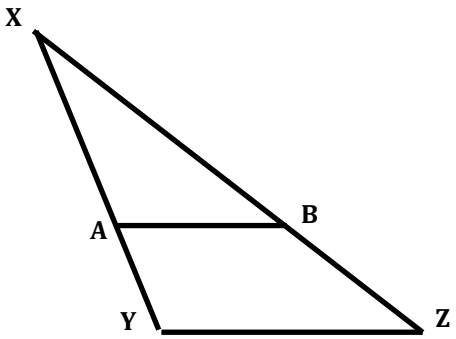


Find the value of 'x'.

3. $x =$_____	
4. $x =$_____	

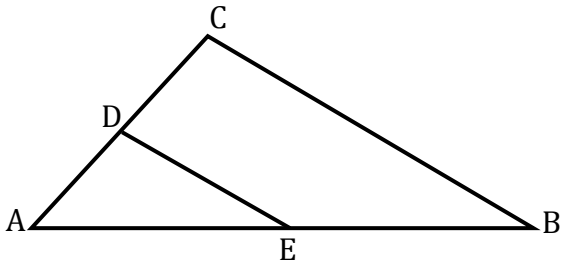
Refer to the figure below for exercises 5 and 6. Determine whether $\overline{AB} \parallel \overline{YZ}$ under the given conditions.

5. YES or NO	$XA = 6$ $AY = 4$ $XB = 8$ $BZ = 5$
6. YES or NO	$XB = 3$ $BZ = 2$ $AB = 6$ $YZ = 10$



In ΔACB find 'x' so that $\overline{DE} \parallel \overline{CB}$.

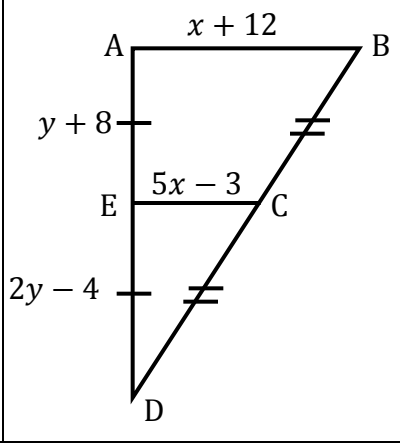
7. $x =$ _____	$DC = 18$ $AD = 6$ $AE = 12$ $EB = x - 3$



Find the values of 'x' and 'y'.

8. $x =$ _____

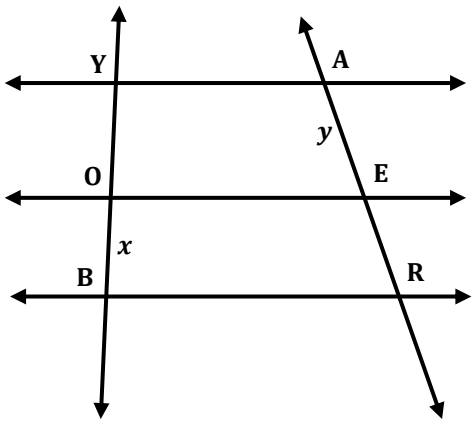
   $y =$ _____



In the figure at the right, $\overline{YA} \parallel \overline{OE} \parallel \overline{BR}$. Find the values of '$x$' and '$y$' if $YO = 4$, $ER = 16$, and $AR = 24$.

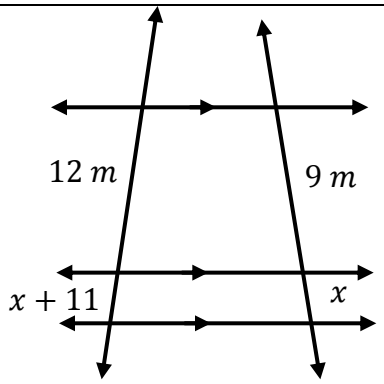
9. $x =$ _____

   $y =$ _____



Find the value of 'x'.

10. $x =$ _____



11. $x =$ _____