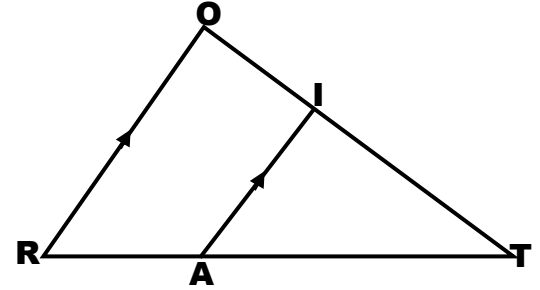


NAME _____ DATE _____ PER. _____

PARALLEL LINES & PROPORTIONAL PARTS IN TRIANGLES

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

1. _____	$\frac{TA}{AR} = \frac{TI}{IT}$
2. _____	$\frac{TA}{TR} = \frac{TO}{OT}$

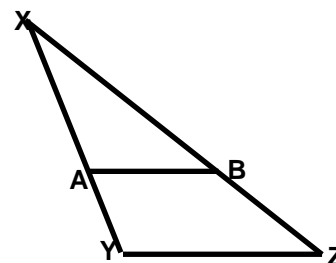
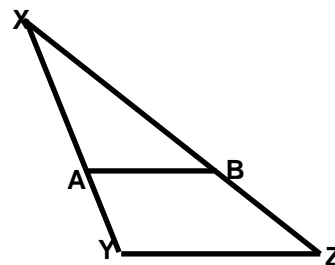


Find the value of 'x'.

3. x = _____	
4. x = _____	
5. x = _____	
6. x = _____	

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

<p>7. YES or NO</p>	<p>$XA = 9$ $AY = 6$ $XB = 12$ $BZ = 7.5$</p>
<p>8. YES or NO</p>	<p>$XA = 6$ $AY = 4$ $XB = 8$ $BZ = 5$</p>



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

<p>9. $x =$ _____</p>	<p>$DC = 6$ $AD = 2$ $AE = 4$ $EB = x - 3$</p>	
<p>10. $x =$ _____</p>	<p>$DC = 18$ $AD = 6$ $AE = 12$ $EB = x - 3$</p>	

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

<p>11. $x =$ _____ $y =$ _____</p>	
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<p>12. $x =$ _____</p> <p>$y =$ _____</p>	
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REVIEW PROBLEMS

Determine whether the pair of triangles is similar. Justify your answer with a reason. If similarity exists, write a similarity statement.

<p>13. YES or NO</p> <p>If yes, how? _____</p> <p>Δ _____ \sim Δ _____</p>	
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Each pair of figures is similar. Find the values of 'x' and 'y'.

<p>14. $x =$ _____</p> <p>$y =$ _____</p>	
<p>15. $x =$ _____</p> <p>$y =$ _____</p>	