

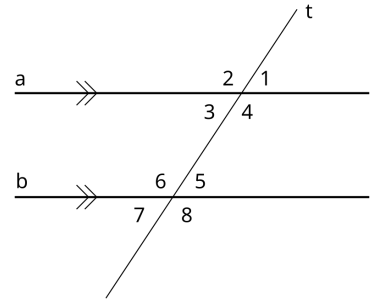
CH 6 Review for Final

1. Use the points (3,5) and (7,-3) to find a) the distance and b) the midpoint between the points
 d= _____ midpt= _____

2.

Using the image above, what angle fits the following description

- a) Consecutive interior angle to $\angle 4$ _____
- b) Alternate exterior angle to $\angle 2$ _____
- c) Corresponding angle to $\angle 1$ _____
- d) Alternate interior angle to $\angle 5$ _____

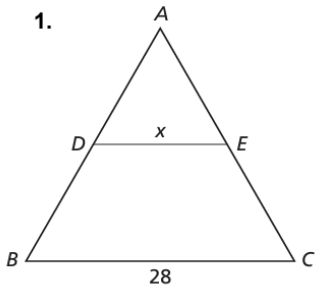


3. Using the image above, if $m\angle 1 = 53$ what is the $m\angle 7$?
4. Using the above image, if $m\angle 6 = 121$, what is the $m\angle 3$?
5. Using the figure above, given $a \parallel b$, prove $m\angle 1 + m\angle 6 = 180$

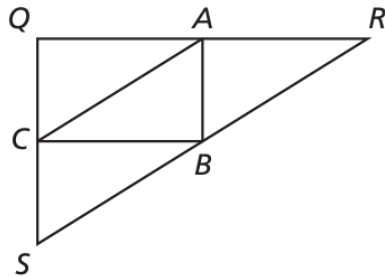
Statement	Reason
1.	1. Given
2. $m\angle 1 = m\angle 3$	2.
3. $m\angle 3 + m\angle 6 = 180$	3.
4.	4.

6. In the image, DE is the midsegment, Find x

1.

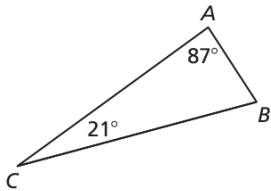


7. Use the diagram given the triangle $\triangle QRS$ with midpoints A, B, C

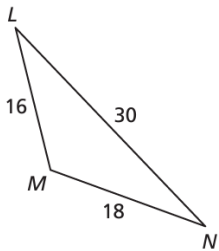


- $QR \parallel$ _____
- $AB \parallel$ _____
- If $AC = 17$, then $QR =$ _____
- If $AC = x - 1$ and $RS = 6x - 18$, then $x =$ _____
- If the perimeter of $\triangle ABC = 38$, the the perimeter of $\triangle QRS$?

8. List the sides in order from shortest to longest



9. List the angles in order from smallest to largest



10. What are the possible lengths of the 3rd side of a triangle if two of the sides have lengths 5in and 8in? Write your answer as a compound inequality.