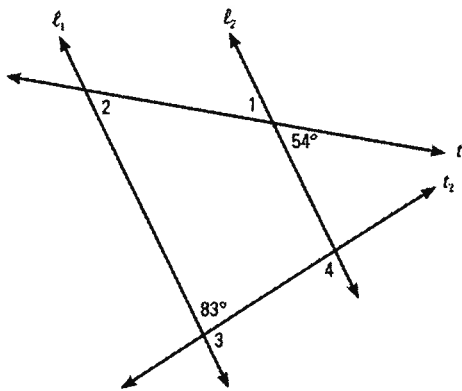


1. l_1 and l_2 are parallel lines. Find all of the missing angles and state the reason for your answer



$\angle 1 =$ _____ reason: _____

$\angle 2 =$ _____ reason: _____

$\angle 3 =$ _____ reason: _____

$\angle 4 =$ _____ reason: _____

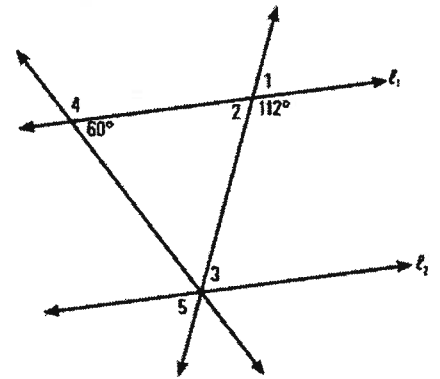
2. l_1 and l_2 are parallel lines. Find all of the missing angles and state the reason for your answer.

$\angle 1 =$ _____ reason: _____

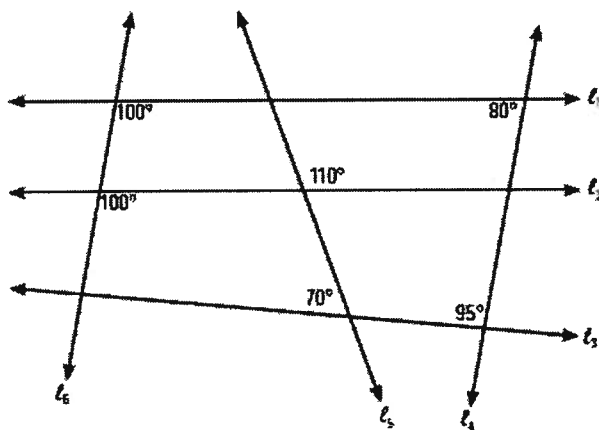
$\angle 2 =$ _____ reason: _____

$\angle 3 =$ _____ reason: _____

$\angle 4 =$ _____ reason: _____

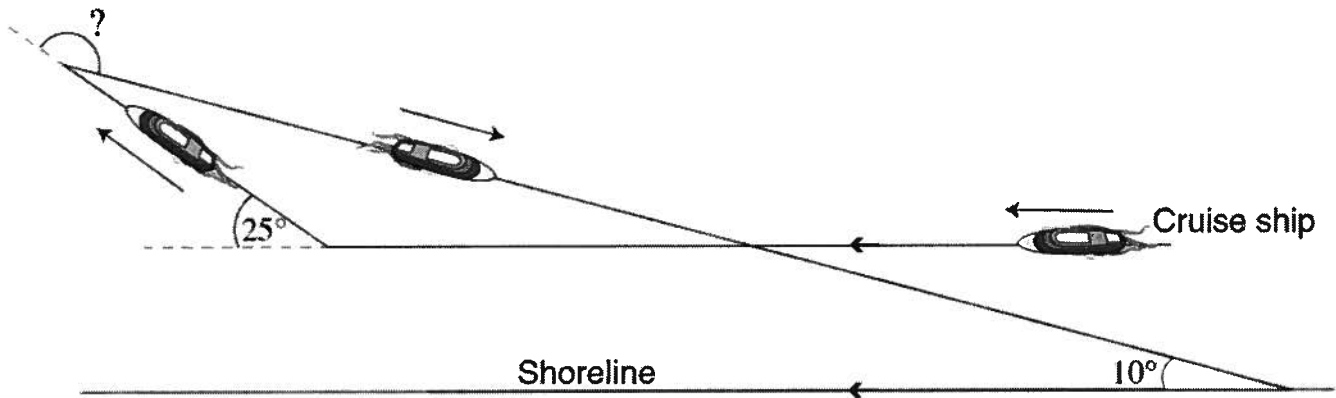


3. In the diagram below identify all the sets of parallel lines and give a reason for your decision.

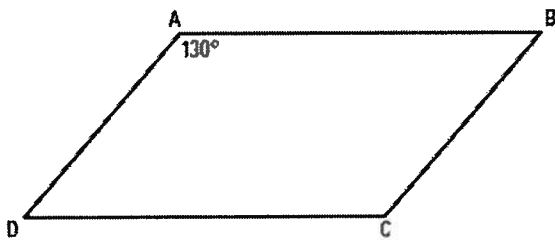


Parallel lines	Reason

4. A cruise ship travelling parallel to the shoreline turns 25° to the right. It continues in this direction before making a sharp right hand turn so it is now pointing at a 10° angle to the shoreline. What is the angle of the second turn?



5. Given parallelogram ABCD, determine the values of $\angle B$, $\angle C$, and $\angle D$ in that order. Give a reason for your angle.



$\angle B =$ _____ reason: _____

$\angle C =$ _____ reason: _____

$\angle D =$ _____ reason: _____

6. In the diagram below l_1 is parallel to l_2 , and l_2 is parallel to l_3 . State two angles whose measures are the same as $\angle 7$. Explain your reasoning.

