

Chapter 5 – Angles and Parallel Lines REVIEW SHEET

Math 10

Name: _____

1. Draw each of the following angles and classify as: acute, right, obtuse, straight, or reflex.

a. 68°

e. 180°

b. 215°

f. 99°

c. 91°

g. 195°

d. 32°

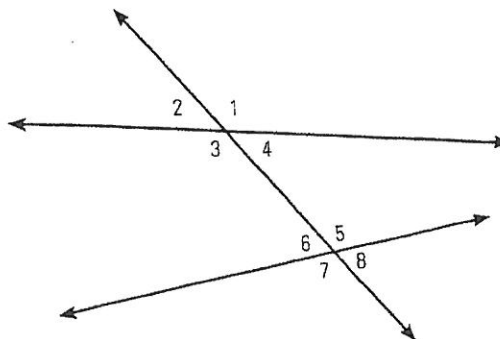
h. 265°

2. Fill in the missing parts in the table. If no such angle exists, write "NOT POSSIBLE" in the correct box.

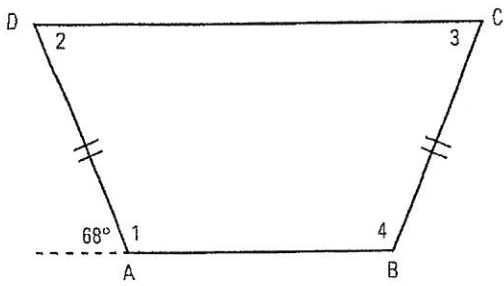
ANGLE CALCULATIONS			
ANGLE	COMPLEMENT	SUPPLEMENT	RESULTING ANGLE MEASURE AFTER THE ANGLE IS BISECTED
73°			
	12°		
15°			
		132°	
90°			
			34°
	49°		
			68°
		100°	
			127°

3. Name the relationship between the indicated pairs of angles.

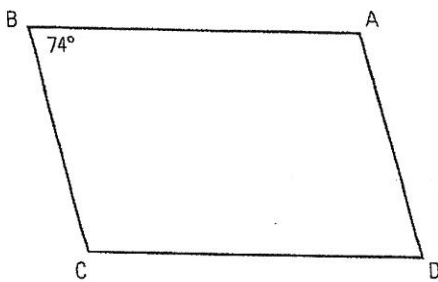
- $\angle 3$ and $\angle 5$
- $\angle 4$ and $\angle 5$
- $\angle 2$ and $\angle 4$
- $\angle 1$ and $\angle 5$
- $\angle 1$ and $\angle 7$
- $\angle 2$ and $\angle 7$



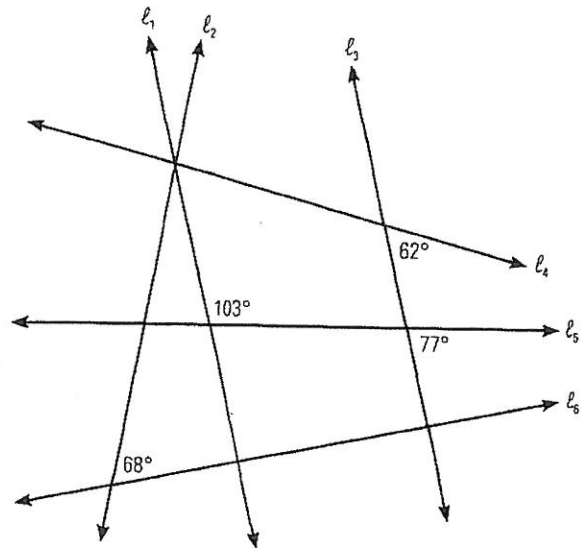
4. What are the measures of the interior angles in the trapezoid shown below? (Hint: Be careful of the order in which you calculate the angles).



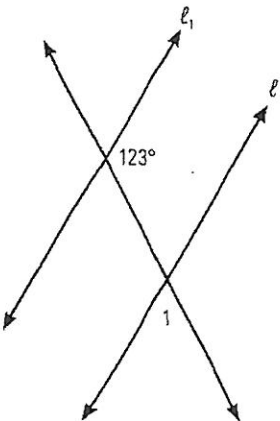
5. Quadrilateral ABCD is a parallelogram in which $\angle B$ measures 74° . Determine the measures of the other angles and state your reasons.



6. Find a pair of parallel lines in the following diagram. On the diagram, mark all the angles necessary to determine this.

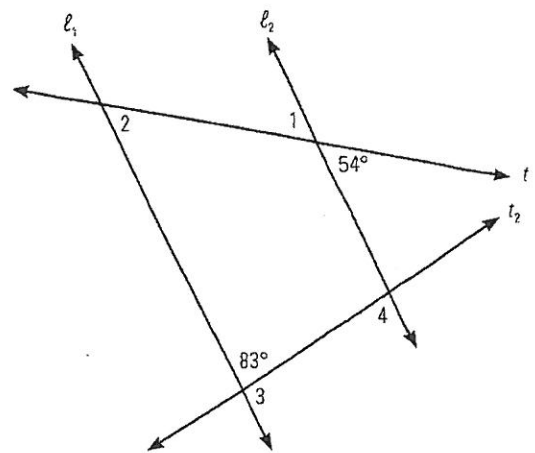


7. What size must $\angle 1$ be if L_1 is parallel to L_2 ?



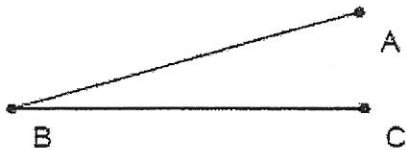
8. If L_1 and L_2 are parallel and are intersected by transversals t_1 and t_2 , what are the measures of the indicated angles? Solve for the measures in the given order, stating your reasoning.

SOLVING ANGLE MEASURES	
ANGLE MEASURE	REASON
$\angle 1 =$	
$\angle 2 =$	
$\angle 3 =$	
$\angle 4 =$	

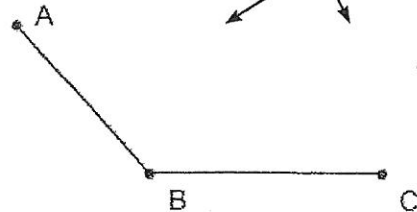


9. Measure the following angles and complete the table.

$\angle 1$.



$\angle 2$.



	$\angle 1$	$\angle 2$
Measurement of angle		
Type of angle		
Size of complementary angle		
Size of supplementary angle		

10. After high school you decide to reward your hard work with a trip to Africa. **Plot your route as you travel from country to country using True North as your bearing.**

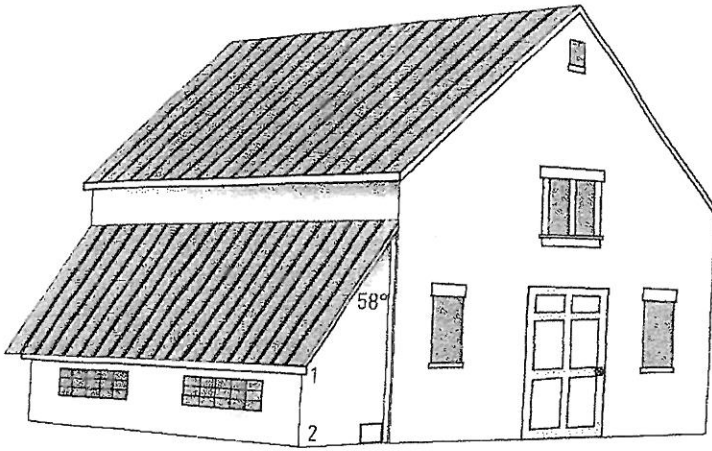
- Your plane lands in Zimbabwe and you check out Victoria Falls
- You next head to Egypt to see the Pyramids of Giza.
- Now it's off to Omo River in Ethiopia for some White Water rafting!
- Time to climb Mount Kilimanjaro in Tanzania.
- Off to South Africa to do some Scuba Diving.
- Back to Zimbabwe to take your flight back home.

Location	Bearing from True North	Distance in cm
Zimbabwe \rightarrow Egypt		
Egypt \rightarrow Ethiopia		
Ethiopia \rightarrow Tanzania		

Tanzania → South Africa		
South Africa → Zimbabwe		



11. In the diagram below, if the side of the house and the side of the shed are parallel, what are the measures of $\angle 1$ and $\angle 2$?



12. Identify the pairs of parallel lines in the following diagram. (Hint: The lines can be extended).

