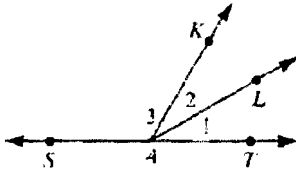


SHOW WORK.

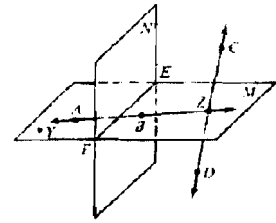
Col. _____ Period _____

1. \overrightarrow{AL} bisects $\angle KAT$. Find x and $m\angle 2$ if
 $m\angle 1 = 7x + 3$
 $m\angle 2 = 6x + 7$

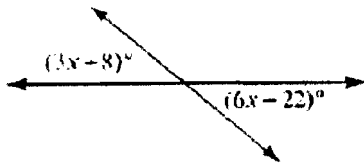


2. True or False?

- a. A is on plane N .
 b. B is on \overleftrightarrow{AZ} .
 c. planes N and M intersect in \overleftrightarrow{FE}

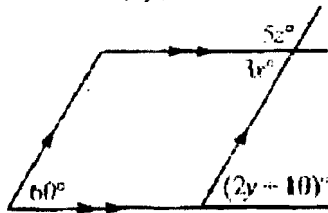


3. Find x .



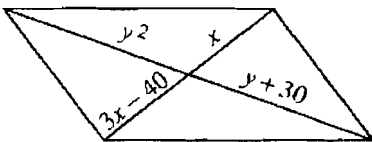
4. $\angle E$ and $\angle F$ are supplementary; $m\angle E = y - 9$,
 $m\angle F = 4y + 14$.
 Find y _____, $m\angle E$ _____, $m\angle F$ _____.

5. Find x , y , and z .

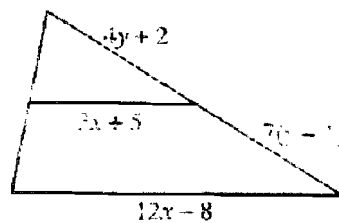


6. Find the interior angle sum and the measure of each angle of a regular hexagon.

7. What values must x and y have to make this quadrilateral a parallelogram?



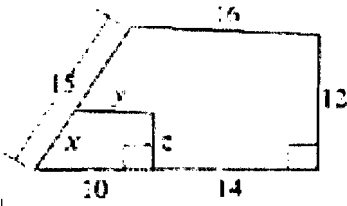
8. Find the values of x and y .



9. The diagonals of a rhombus measure 6 inches and 8 inches. Find the perimeter of the rhombus.

10. The lengths of 2 sides of a triangle are 10 and 15. The third side must be greater than ____ but less than ____.

11. Two similar polygons are shown. Find x , y , and z .

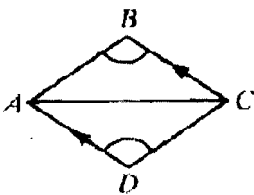


12. A 16-foot tower casts a 21-foot shadow. How tall is a building that casts a 56-foot shadow at the same time?

13. Complete the proof:

Given: $\angle B \cong \angle D$
 $\overline{BC} \parallel \overline{AD}$

Prove: $\overline{AB} \cong \overline{CD}$



STATEMENTS	REASONS
1. $\angle B \cong \angle D$ $\overline{BC} \parallel \overline{AD}$	1.
2. $\angle BCA \cong \angle DAC$	2.
3. $\overline{AC} \cong \overline{CA}$	3.
4. $\triangle ABC \cong \triangle \underline{\hspace{1cm}}$	4.
5. $\overline{AB} \cong \overline{CD}$	5.