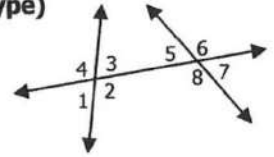


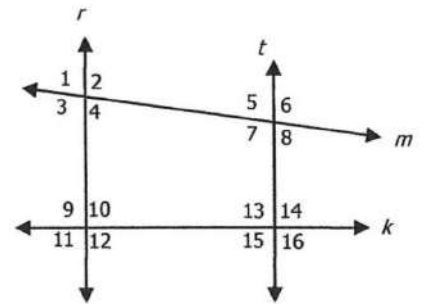
**II. Identify the angles that go with the following types. (give all angles for each type)**

- 5) Corresponding angles
- 6) Alternate exterior angles
- 7) Consecutive interior angles
- 8) Alternate interior angles



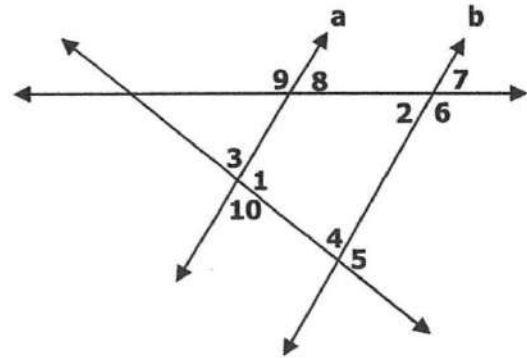
**III. Using the figure below, state the transversal that forms each pair of angles. Then identify the special name for the angle pair.**

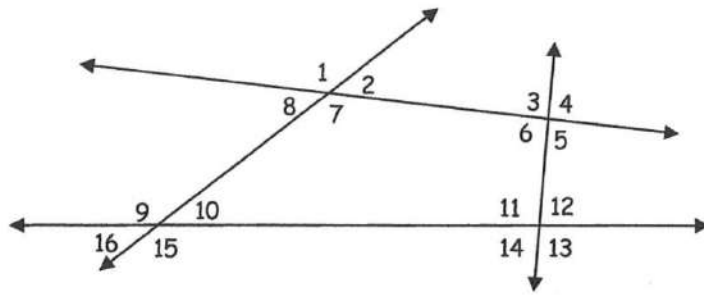
- 9)  $\angle 1$  and  $\angle 12$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_
- 10)  $\angle 2$  and  $\angle 10$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_
- 11)  $\angle 4$  and  $\angle 9$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_
- 12)  $\angle 6$  and  $\angle 3$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_
- 13)  $\angle 14$  and  $\angle 10$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_
- 14)  $\angle 7$  and  $\angle 13$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_



In figure below  $a \parallel b$ ,  $m\angle 1 = 78^\circ$ , and  $m\angle 2 = 47^\circ$ .  
Find measure of each angle.

- 21)  $\angle 3$
- 22)  $\angle 4$
- 23)  $\angle 5$
- 24)  $\angle 6$
- 25)  $\angle 7$
- 26)  $\angle 8$
- 27)  $\angle 9$
- 28)  $\angle 10$



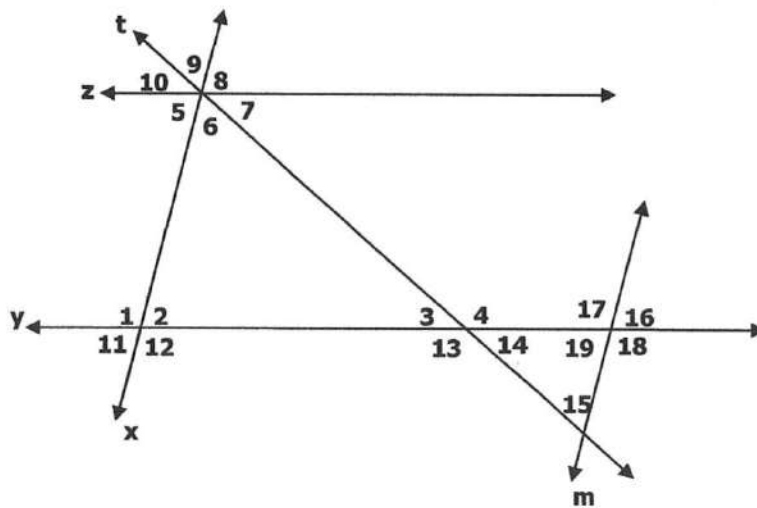


Use the picture above to identify the special name for the angle pairs.

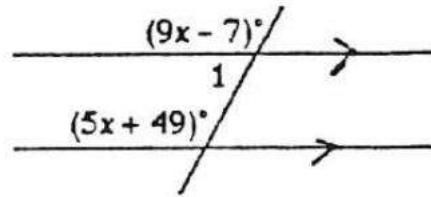
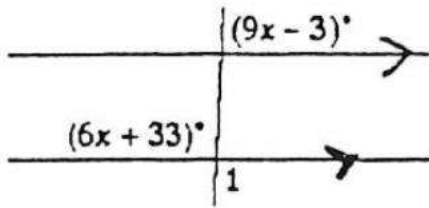
- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| 43) $\angle 2$ and $\angle 6$ _____   | 49) $\angle 2$ and $\angle 1$ _____   |
| 44) $\angle 1$ and $\angle 9$ _____   | 50) $\angle 10$ and $\angle 14$ _____ |
| 45) $\angle 9$ and $\angle 6$ _____   | 51) $\angle 11$ and $\angle 6$ _____  |
| 46) $\angle 9$ and $\angle 13$ _____  | 52) $\angle 15$ and $\angle 11$ _____ |
| 47) $\angle 14$ and $\angle 16$ _____ | 53) $\angle 4$ and $\angle 13$ _____  |
| 48) $\angle 10$ and $\angle 16$ _____ | 54) $\angle 3$ and $\angle 11$ _____  |

I. If  $m\angle 2 = 58^\circ$  and  $m\angle 13 = 111^\circ$ , then find the missing angle measures.  $x \parallel m$ ,  $z \parallel y$

- 55)  $m\angle 1 =$  \_\_\_\_\_
- 56)  $m\angle 2 =$  \_\_\_\_\_
- 57)  $m\angle 3 =$  \_\_\_\_\_
- 58)  $m\angle 4 =$  \_\_\_\_\_
- 59)  $m\angle 5 =$  \_\_\_\_\_
- 60)  $m\angle 6 =$  \_\_\_\_\_
- 61)  $m\angle 7 =$  \_\_\_\_\_
- 62)  $m\angle 8 =$  \_\_\_\_\_
- 63)  $m\angle 9 =$  \_\_\_\_\_
- 64)  $m\angle 10 =$  \_\_\_\_\_
- 65)  $m\angle 11 =$  \_\_\_\_\_
- 66)  $m\angle 12 =$  \_\_\_\_\_
- 67)  $m\angle 13 =$  \_\_\_\_\_
- 68)  $m\angle 14 =$  \_\_\_\_\_
- \*69)  $m\angle 15 =$  \_\_\_\_\_
- 70)  $m\angle 16 =$  \_\_\_\_\_ (16-19 look at line  $x$  and  $m$ )
- 71)  $m\angle 17 =$  \_\_\_\_\_
- 72)  $m\angle 18 =$  \_\_\_\_\_
- 73)  $m\angle 19 =$  \_\_\_\_\_

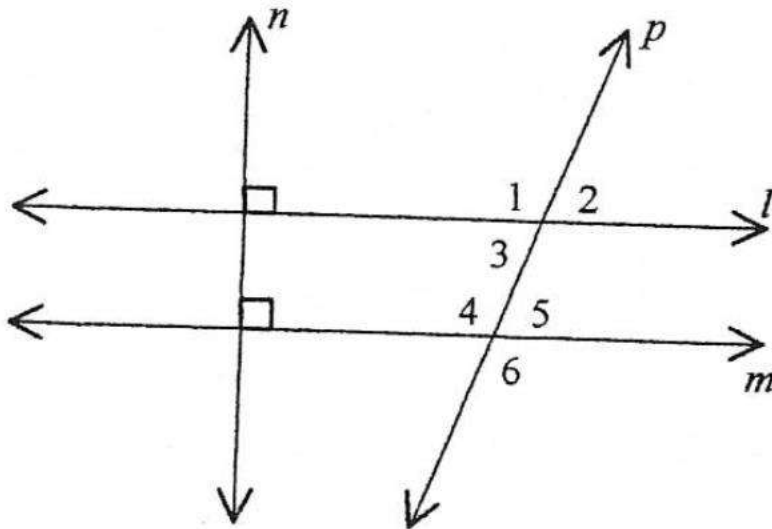


For the given figures, find the value of  $x$  and the measure of  $\angle 1$ .



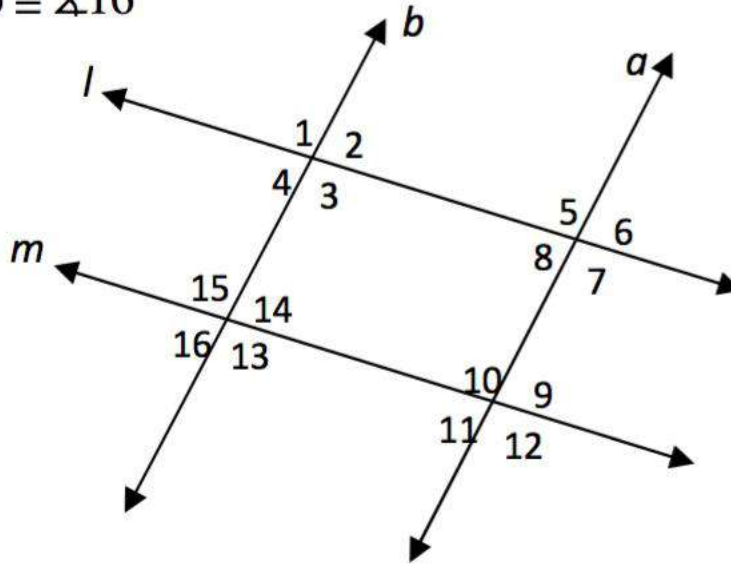
Given:  $l \perp n, m \perp n$

Prove:  $\angle 3$  and  $\angle 6$  are supplementary



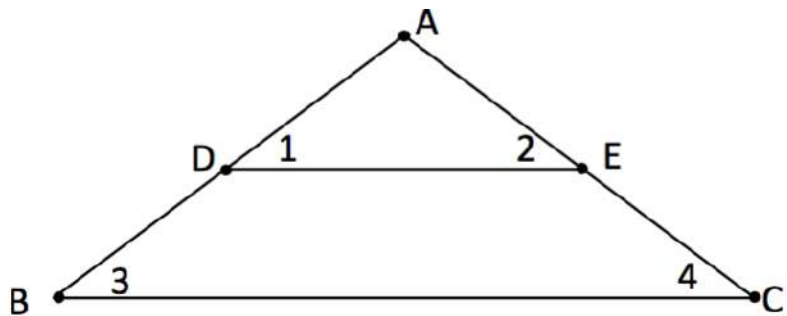
Given:  $a \parallel b$ ;  $l \parallel m$

Prove:  $\angle 6 \cong \angle 16$



4. Given:  $m\angle 1 = m\angle 3$   
 $m\angle 1 = m\angle 2$

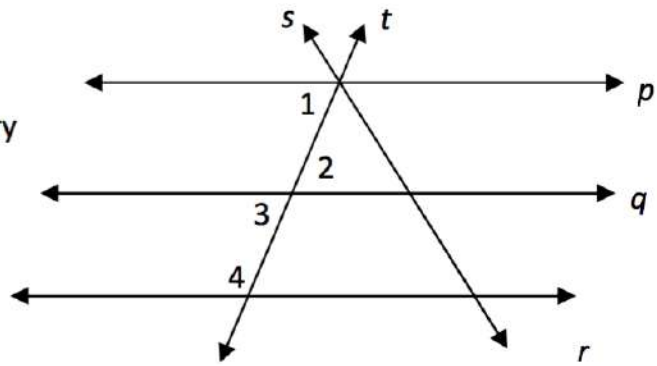
Prove:  $m\angle 3 = m\angle 4$



5. Given:  $\angle 1$  &  $\angle 4$  are supplementary

$q \parallel r$

Prove:  $p \parallel q$



Given:  $\overline{ACD}$ ,  $\overline{CE}$  bis  $\angle DCB$

$\overline{CE} \parallel \overline{AB}$

Prove:  $\angle A \cong \angle B$

Proof

