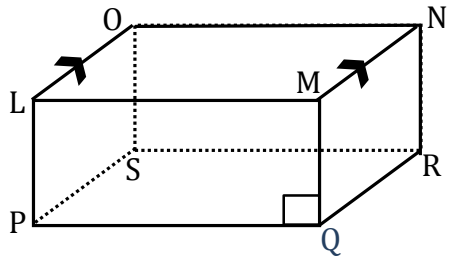
NAME_____**DATE**_____**PER.**_____

3.1 & 3.2 – Parallel Lines & Transversals

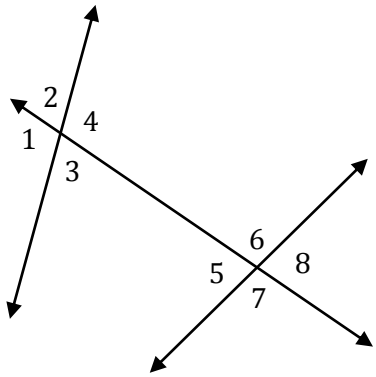
Identify each of the following.

1. One pair of perpendicular segments
2. One pair of parallel segments
3. One pair of parallel planes



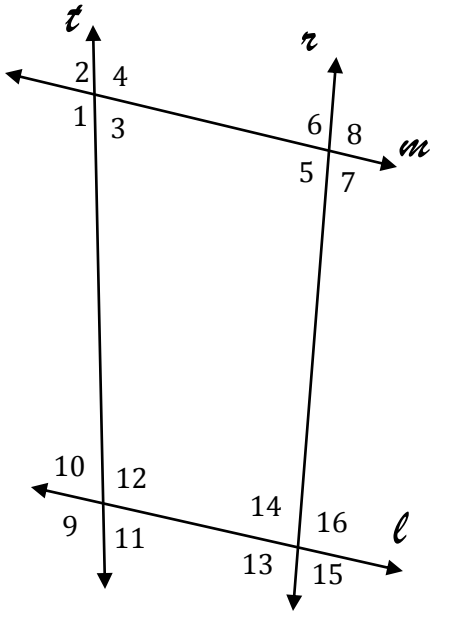
Give an example of each angle pair.

4. Alternate interior angles
5. Alternate exterior angles
6. Corresponding angles
7. Same-side interior angles



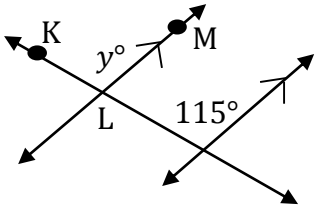
State the transversal that forms each pair of angles. Then, identify the special name for the angle pair.

8. ∠1 and ∠12
9. ∠2 and ∠10
10. ∠4 and ∠9
11. ∠6 and ∠3
12. ∠14 and ∠10
13. ∠7 and ∠13

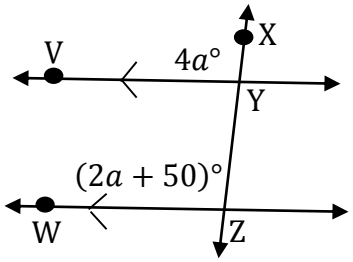


Find each angle measure.

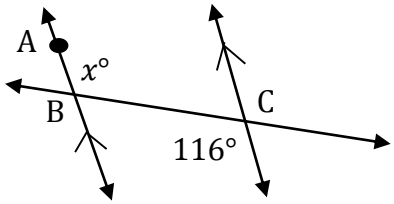
14. $m\angle KLM$ =_____



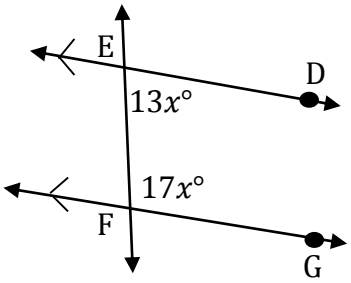
15. $m\angle VYX$ =_____



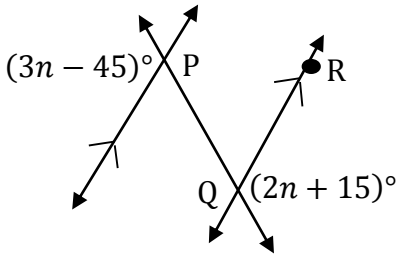
16. $m\angle ABC$ =_____



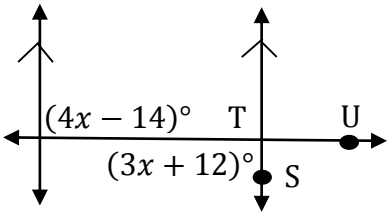
17. $m\angle EFG$ =_____



18. $m\angle PQR$ =_____

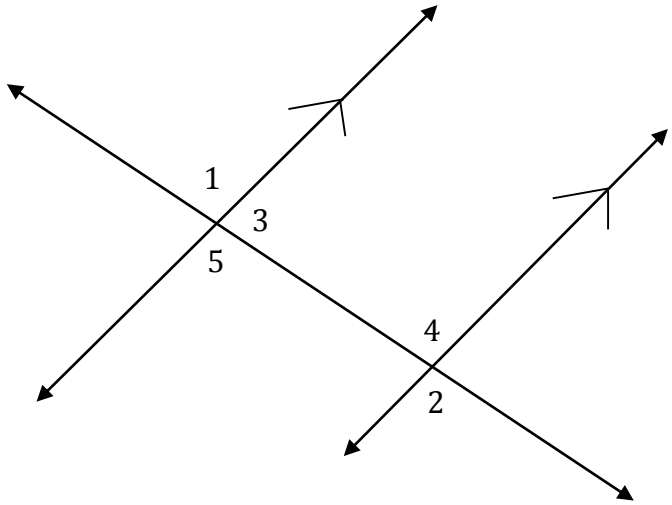


19. $m\angle STU$ =_____



State the type of angle pair for each. Then, find the measure of both of the angles.

20. $\boldsymbol{m\angle 1 = (7x + 15)^\circ}$**;** $\boldsymbol{m\angle 2 = (10x - 9)^\circ}$



Type of pair:_____

$\boldsymbol{m\angle 1}$ =_____

$\boldsymbol{m\angle 2}$ =_____

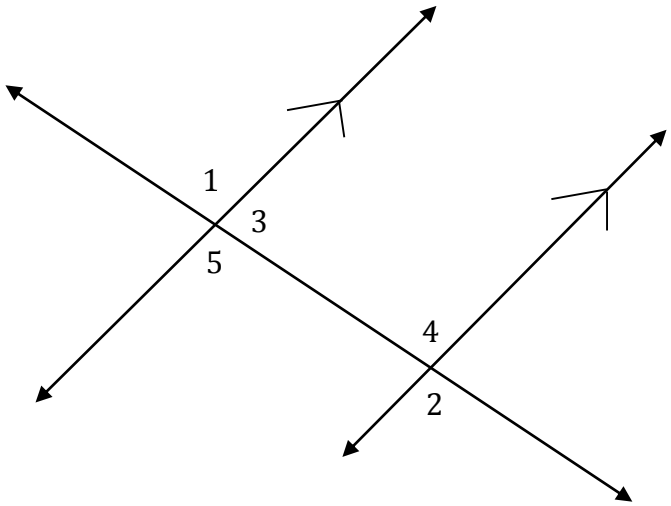
21. $\boldsymbol{m\angle 4 = (37x - 15)}$**;** $\boldsymbol{m\angle 5 = (44x - 29)^\circ}$

Type of pair:_____

$\boldsymbol{m\angle 4}$ =_____

$\boldsymbol{m\angle 5}$ =_____

22. $\boldsymbol{m\angle 3 = (23x + 11)°; m\angle 4 = (14x + 21)°}$



Type of pair:_____

$\boldsymbol{m\angle 3}$ =_____

$\boldsymbol{m\angle 4}$ =_____

23. $\boldsymbol{m\angle 5 = (6x + 24)°; m\angle 2 = (17x - 9)°}$

Type of pair:_____

$\boldsymbol{m\angle 5}$ =_____

$\boldsymbol{m\angle 2}$ =_____