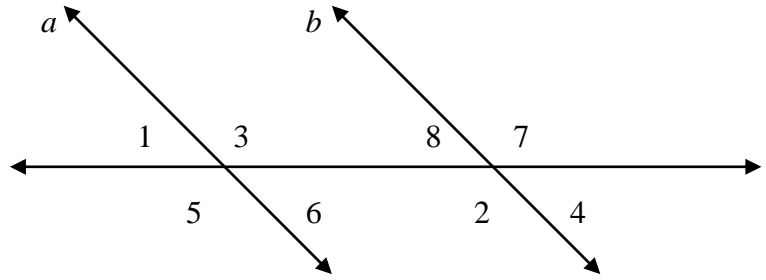


In the given figure,  $\vec{a} \parallel \vec{b}$ . Write *vertical*, *corresponding*, *supplementary*, or *alternate interior* to identify each pair of angles.

1.  $\angle 2$  and  $\angle 7$  \_\_\_\_\_
2.  $\angle 5$  and  $\angle 6$  \_\_\_\_\_
3.  $\angle 1$  and  $\angle 8$  \_\_\_\_\_
4.  $\angle 2$  and  $\angle 3$  \_\_\_\_\_

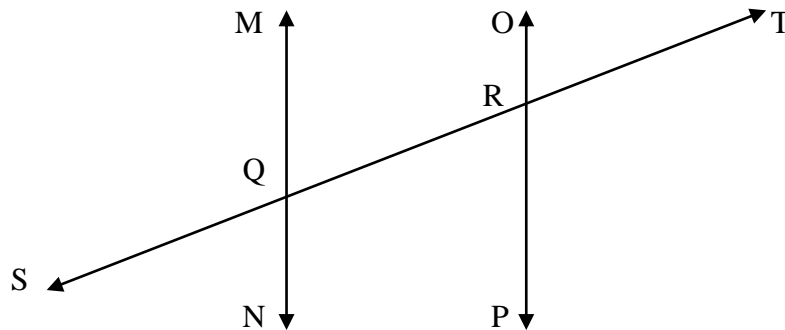


Using the same figure as above, write congruent or supplementary to name each pair of angles.

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| 5. $\angle 2$ and $\angle 3$ _____  | 6. $\angle 2$ and $\angle 8$ _____  |
| 7. $\angle 5$ and $\angle 8$ _____  | 8. $\angle 6$ and $\angle 7$ _____  |
| 9. $\angle 2$ and $\angle 7$ _____  | 10. $\angle 1$ and $\angle 6$ _____ |
| 11. $\angle 3$ and $\angle 4$ _____ | 12. $\angle 4$ and $\angle 5$ _____ |

In the figure below,  $\vec{MN} \parallel \vec{OP}$ . Write *true* if the angles are congruent and *false* if they are not.

- |   |   |
|---|---|
| 13. $\angle QRP \cong \angle MQR$ _____ | 14. $\angle SQN \cong \angle ORT$ _____ |
| 15. $\angle MQS \cong \angle ORT$ _____ | 16. $\angle ORT \cong \angle QRO$ _____ |



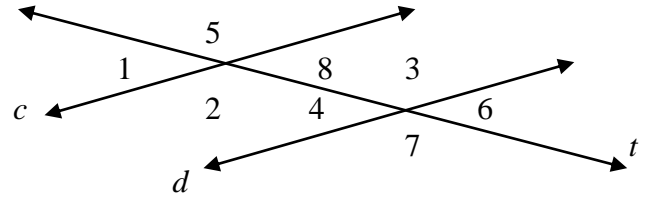
Use the figure at right to find the measure of each angle. In the figure  $\vec{c} \parallel \vec{d}$  and  $m\angle 5 = 155^\circ$ .

17.  $m\angle 1$  \_\_\_\_\_

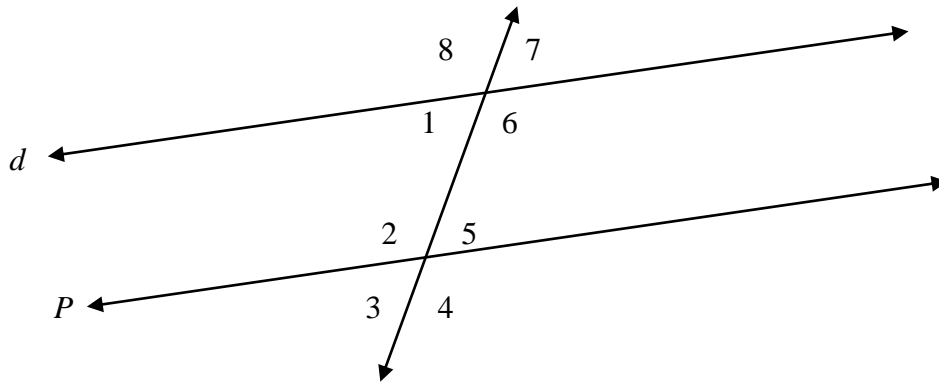
18.  $m\angle 4$  \_\_\_\_\_

19.  $m\angle 7$  \_\_\_\_\_

20.  $m\angle 6$  \_\_\_\_\_



Given  $\vec{d} \parallel \vec{p}$  and  $m\angle 7 = 65^\circ$ :



Find the measure of:

21.  $\angle 1$  \_\_\_\_\_

22.  $\angle 2$  \_\_\_\_\_

23.  $\angle 3$  \_\_\_\_\_

24.  $\angle 4$  \_\_\_\_\_

25.  $\angle 5$  \_\_\_\_\_

26.  $\angle 6$  \_\_\_\_\_

27.  $\angle 8$  \_\_\_\_\_

Using the same picture as above:

28. Name all pairs of corresponding angles: \_\_\_\_\_

29. Name all pairs of alternate interior angles: \_\_\_\_\_