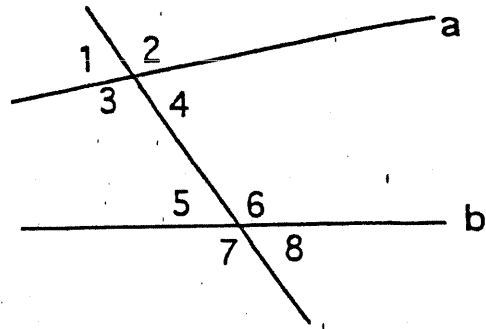


# Are They Parallel?



Based on the information given, determine whether or not line a is parallel to line b (Write yes or no). Explain your answer.

1.  $m\angle 1 = m\angle 5$
2.  $m\angle 3 = m\angle 6$
3.  $m\angle 5 = m\angle 8$
4.  $\angle 4$  and  $\angle 6$  are right angles
5.  $m\angle 1 = m\angle 7$
6.  $m\angle 3 = m\angle 5$
7.  $\angle 2$  and  $\angle 8$  are supplementary
8.  $m\angle 2 = m\angle 7$



Based on the given information determine which pairs of lines, if any, are parallel. (If none, write "none") Explain your answer.

9.  $m\angle 2 = m\angle 7$
10.  $m\angle 3 = m\angle 11$
11.  $m\angle 1 = m\angle 11$
12.  $m\angle 9 = m\angle 10$
13.  $m\angle 13 = m\angle 12$
14.  $m\angle 4 = m\angle 7$
15.  $\angle 6$  and  $\angle 7$  are supplementary
16.  $\angle 4$  and  $\angle 12$  are supplementary
17.  $m\angle 5 = m\angle 8$
18.  $m\angle 10 = m\angle 7$

