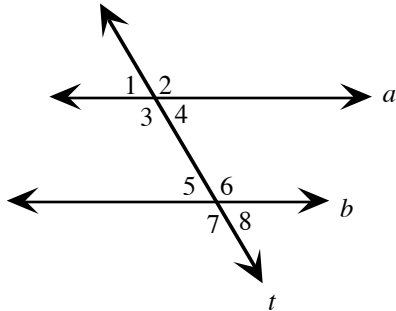


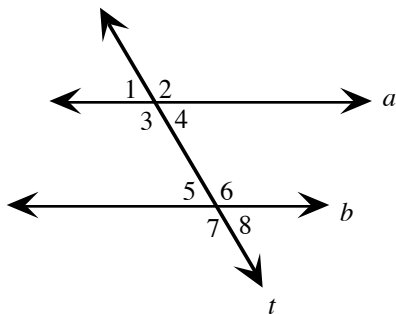
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Use the two converses and the information given in each part below to determine **whether line a is parallel to line b** for each part below. Write yes or no and explain your reasons.

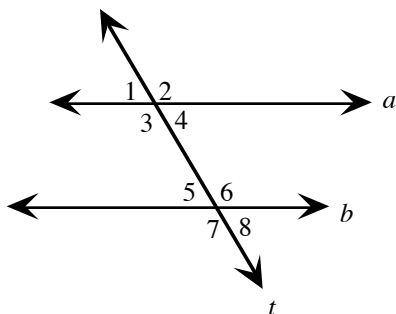
a) $m\angle 1 = m\angle 5$



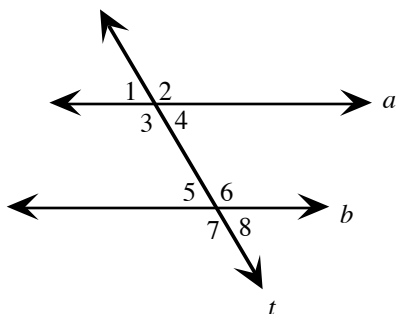
c) $m\angle 5 = m\angle 8$



e) $m\angle 1 = m\angle 7$



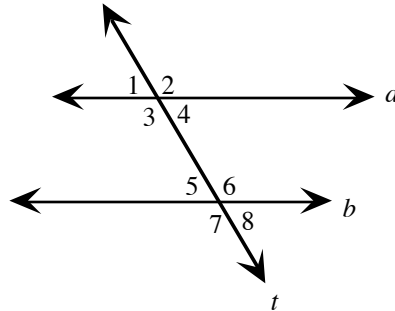
g) $m\angle 2 = m\angle 7$



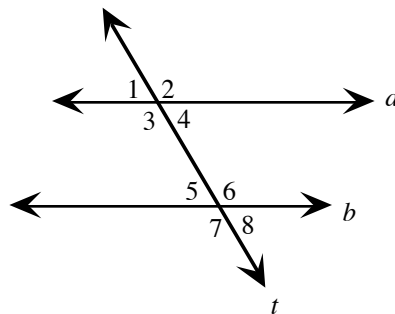
Conjectures

- If a pair of alternate interior angles are equal, then the two lines are parallel.
- If a pair of corresponding angles are equal, then the two lines are parallel.

b) $m\angle 3 = m\angle 6$



d) $\angle 4$ and $\angle 6$ are right angles



f) $m\angle 3 = m\angle 5$

