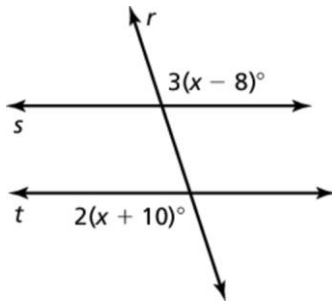
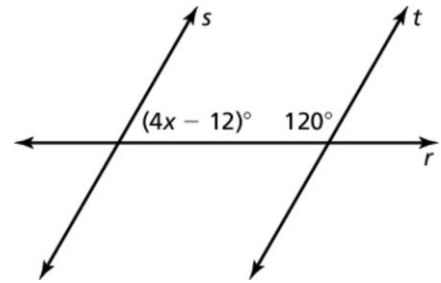


In Exercises 1 and 2, find the value of x that makes $s \parallel t$. Explain your reasoning.

1.

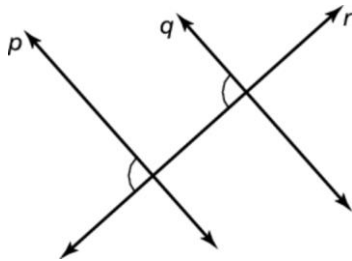


2.

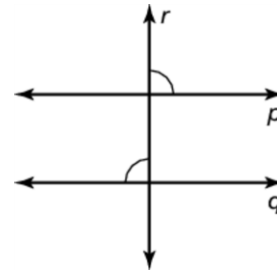


In Exercises 3 – 6, decide whether there is enough information to prove that $p \parallel q$. If so, state the theorem you would use.

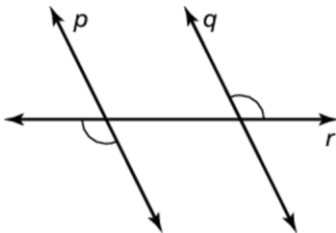
3.



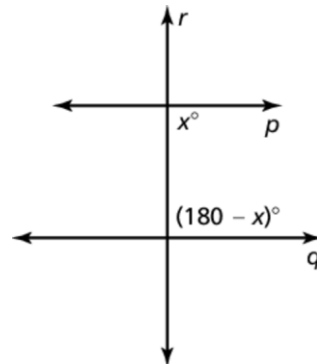
4.



5.

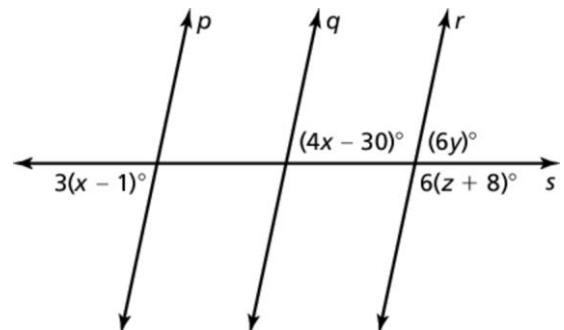


6.



7. Use the diagram to answer the following.

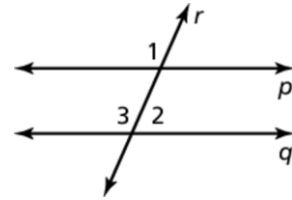
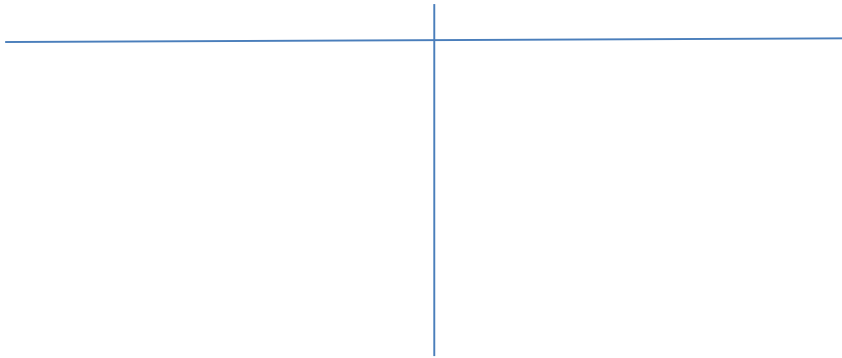
a. Find the values of x , y , and z that makes $p \parallel q$ and $q \parallel r$. Explain your reasoning.



b. Is $p \parallel r$? Explain your reasoning.

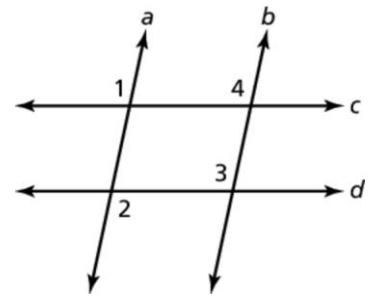
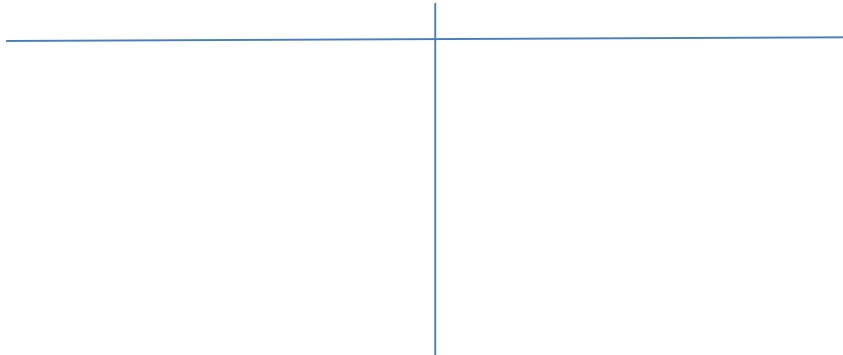
8. **Given:** $\angle 1$ and $\angle 2$ are supplementary

Prove: $p \parallel q$



9. **Given:** $\angle 1 \cong \angle 2$ and $\angle 2 \cong \angle 3$

Prove: $\angle 1 \cong \angle 4$



10. **Given:** $\angle 1 \cong \angle 2$, $f \perp h$
and $f \parallel g$

Prove: $e \parallel g$

