

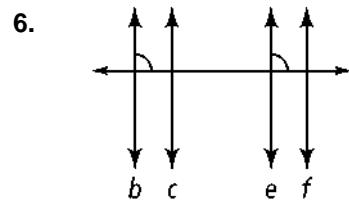
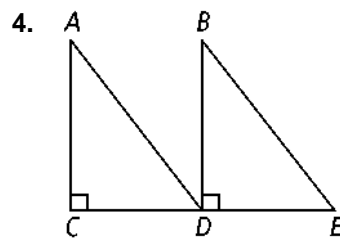
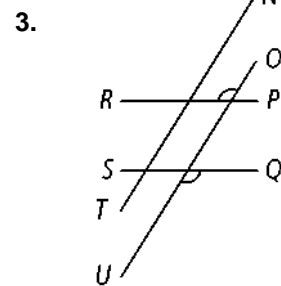
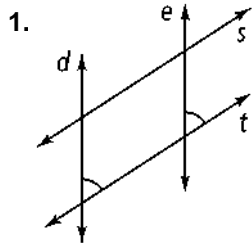
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Practice

Form G

Proving Lines Parallel

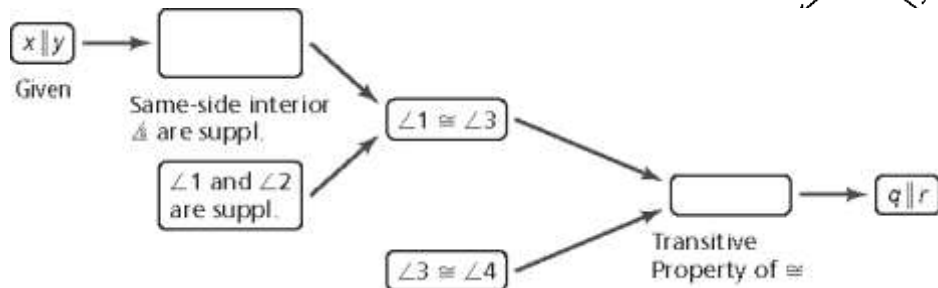
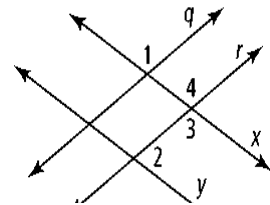
Which lines or segments are parallel? Justify your answer.



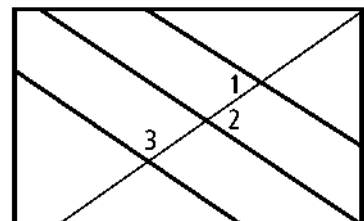
7. Developing Proof Complete the flow proof below.

Given: $\angle 1$ and $\angle 2$ are supplementary; $x \parallel y$

Prove: $q \parallel r$



8. The art club is designing a new flag for the marching band. In the diagram, $m\angle 1 = 45$, $m\angle 2 = 45$, and $m\angle 3 = 145$. Does the flag contain three parallel lines? Explain.



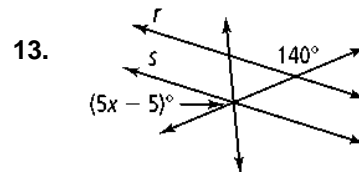
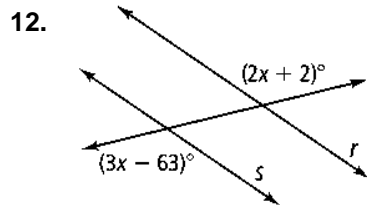
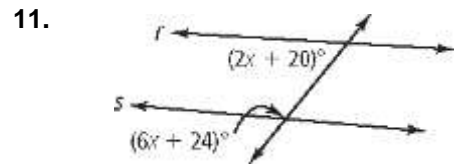
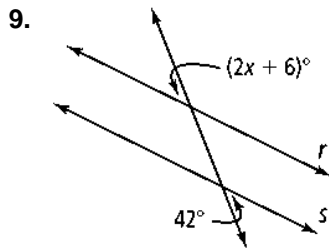
3-3

Practice (continued)

Form G

Proving Lines Parallel

Algebra Determine the value of x for which $r \parallel s$. Then find the measure of each labeled angle.



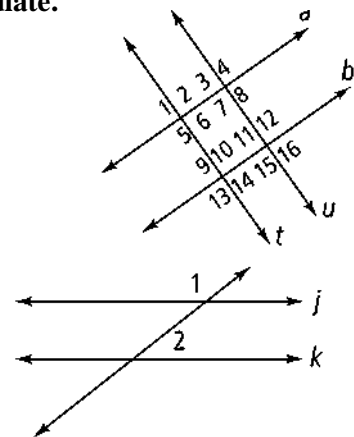
Developing Proof Use the given information to determine which lines, if any, are parallel. Justify each conclusion with a theorem or postulate.

15. $\angle 11$ is supplementary to $\angle 10$.

16. $\angle 6 \cong \angle 9$

19. $\angle 12$ is supplementary to $\angle 3$.

20. $\angle 2 \cong \angle 13$



Algebra Determine the value of x for which $j \parallel k$. Then find $m\angle 1$ and $m\angle 2$.

21. $m\angle 1 = 7x + 14$, $m\angle 2 = 2x + 4$