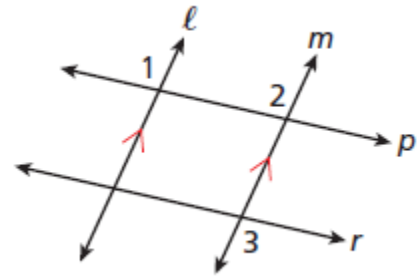
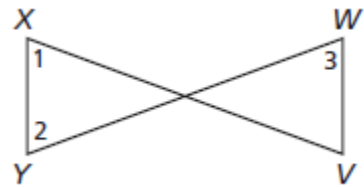


Geometry – Chapter 3 Proof Practice

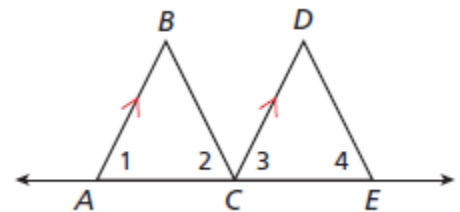
- 1 Given: $\ell \parallel m$, $\angle 1 \cong \angle 3$
Prove: $r \parallel p$



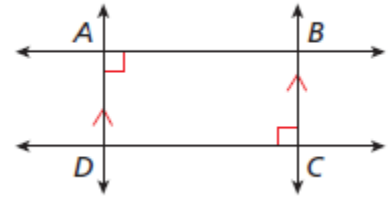
- 2 Given: $\angle 1 \cong \angle 2$, $\angle 3 \cong \angle 1$
Prove: $XY \parallel WV$



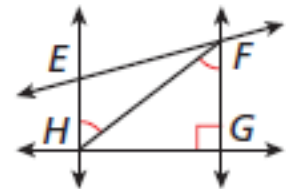
- 3 Given: $\overline{AB} \parallel \overline{CD}$, $\angle 1 \cong \angle 2$, $\angle 3 \cong \angle 4$
Prove: $\overline{BC} \parallel \overline{DE}$



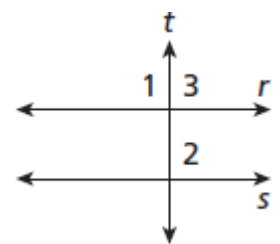
- 4 **Given:** $\overleftrightarrow{AD} \parallel \overleftrightarrow{BC}$, $\overleftrightarrow{AD} \perp \overleftrightarrow{AB}$, $\overleftrightarrow{BC} \perp \overleftrightarrow{DC}$
Prove: $\overleftrightarrow{AB} \parallel \overleftrightarrow{DC}$



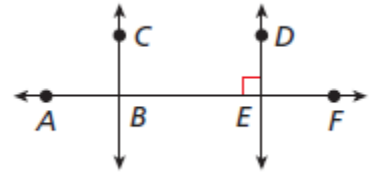
- 5 **Given:** $\angle EHF \cong \angle HFG$, $\overleftrightarrow{FG} \perp \overleftrightarrow{GH}$
Prove: $\overleftrightarrow{EH} \perp \overleftrightarrow{GH}$



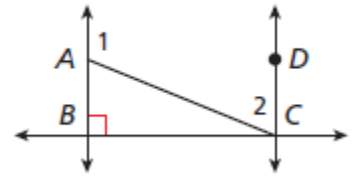
- 6 **Given:** $r \parallel s$, $\angle 1 \cong \angle 2$
Prove: $r \perp t$



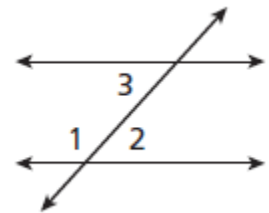
- 7 Given: $\angle ABC \cong \angle CBE$, $\overleftrightarrow{DE} \perp \overleftrightarrow{AF}$
 Prove: $\overleftrightarrow{CB} \parallel \overleftrightarrow{DE}$



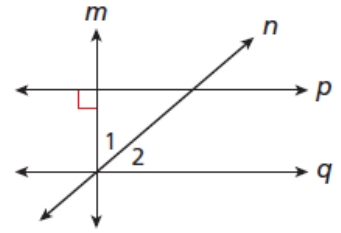
- 8 Given: $\overleftrightarrow{AB} \perp \overleftrightarrow{BC}$, $m\angle 1 + m\angle 2 = 180^\circ$
 Prove: $\overleftrightarrow{BC} \perp \overleftrightarrow{CD}$



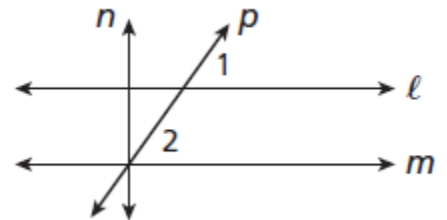
- Given: $\angle 1$ is supplementary to $\angle 3$.
 9 Prove: $\angle 2 \cong \angle 3$



- 10 Given: $m \perp p$, $\angle 1$ and $\angle 2$ are complementary.
 Prove: $p \parallel q$



- 11 Given: $\angle 1 \cong \angle 2$, $n \perp \ell$
 Prove: $n \perp m$



- 12 Given: $\angle 1 \cong \angle 2$, $\ell \perp n$
 Prove: $\ell \perp p$

