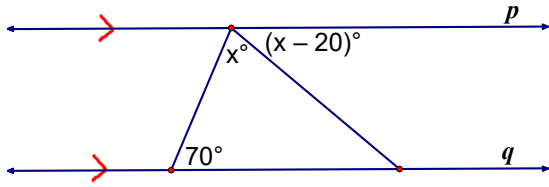
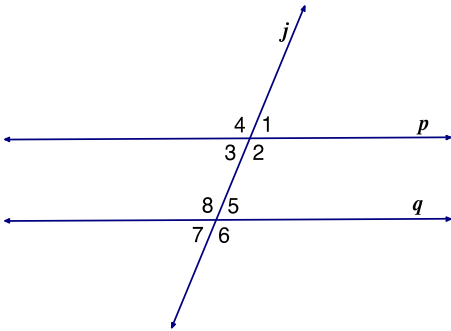


**3-2 & 3-4:
Parallel & Perpendicular Line Proofs**

Warm Up: Use the parallel line postulates/theorems to find the value of x .

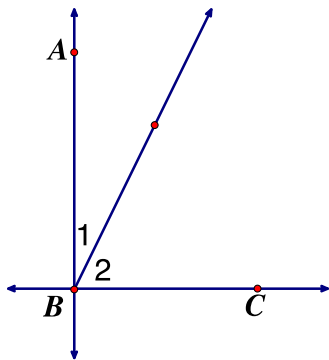


EX 1) Given: $p \parallel q$
Prove: $\angle 1 \cong \angle 7$



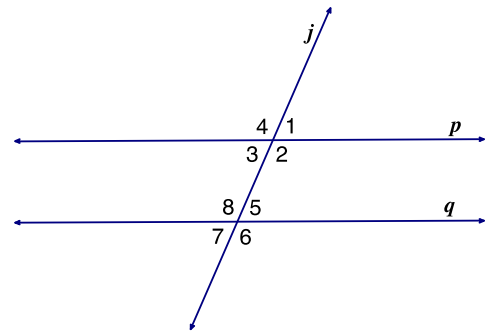
Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.

EX 2) Given: $\overrightarrow{AB} \perp \overrightarrow{BC}$
Prove: $\angle 1$ and $\angle 2$ are complementary



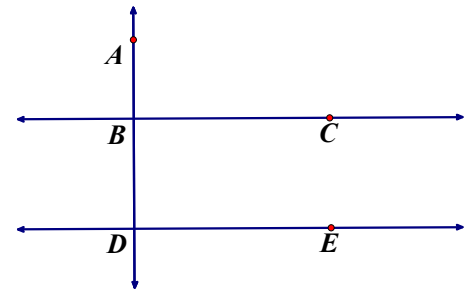
Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

EX 3) Given: $p \parallel q$
 Prove: $m\angle 1 + m\angle 6 = 180^\circ$



Statement	Reason

EX 4) Given: $\overline{BC} \parallel \overline{DE}$, $\overline{AB} \perp \overline{BC}$
 Prove: $\overline{AB} \perp \overline{DE}$



Statement	Reason