Practice 3.4 Proving That Lines Are Parallel For Exercises 1–5, refer to the diagram below, and fill in the name of the appropriate theorem or postulate.			
		1. If $m \angle 5 = m \angle 4$ , then $\ell    m$ by the converse of the	
		2. If $m \angle 6 = m \angle 3$ , then $\ell \parallel m$ by the	converse of the $1 \begin{array}{c} 2 \\ 5 \\ 6 \end{array} \begin{array}{c} 3 \\ 4 \\ 7 \\ 8 \end{array}$
3. If $m \angle 1 = m \angle 3$ , then $\ell \parallel m$ by the converse of the			
4. If $m \angle 1 = m \angle 8$ , then $\ell \parallel m$ by the converse of the			
5. If $m \angle 6 + m \angle 7 = 180^\circ$ , then $\ell \parallel n$	<i>n</i> by the converse of the		
For Exercises 6–12, use the diagra complete the two-column proof b			
Given: $m \angle 1 = m \angle 3$ $p \parallel q$	(1) $(1)$ $(2)$		
Prove: $\ell \parallel m$	$\sim$ $3/$ $m$		
Statements	Reasons		
$p \  q$	6		
$\angle 1$ and $\angle 2$ are supplementary.	7		
$m \angle 1 + m \angle 2 = 180^{\circ}$	8		
$m \angle 1 = m \angle 3$	9		
$m\angle 3 + m\angle 2 = 180^{\circ}$	10		
$\angle 3$ and $\angle 2$ are supplementary.	11		
$\ell \parallel m$	12		

NAME \_\_\_\_\_ CLASS \_\_\_\_\_ DATE \_\_\_\_\_