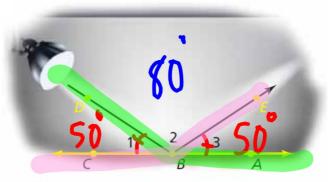
You reflect the beam of a spotlight off a mirror lying flat on a stage, as shown. Determine whether

 $m \angle DBA = m \angle EBC$.



Statements		Reasons
1.	$m \angle 1 = m \angle 3$	Given
2.	$m\angle DBA = m\angle 3 + m\angle 2$	Angle Addition Postulate
3.	$m\angle DBA = m\angle 1 + m\angle 2$	Substitution Property of Equality
4.	$m \angle 1 + m \angle 2 \neq m \angle EBC$	Angle Addition Postulate
5.	$m\angle DBA = m\angle EBC$	Transitive Property of Equality

