Name _____ **Date** _____

LESSON 2.5

Practice B

For use with pages 104–111

Complete the logical argument by giving a reason for each step.

1. $5(2x - 1) = 9x + 2$ — Given

$10x - 5 = 9x + 2$ — **a.** __?__

$10x = 9x + 7$ — **b.** __?__

$x = 7$ — **c.** __?__

2. $8x - 5 = -2x - 15$ — Given

$10x - 5 = -15$ — **a.** __?__

$10x = -10$ — **b.** __?__

$x = -1$ — **c.** __?__

3. $AB = BC$ — Given

$AC = AB + BC$ — **a.** __?__

$AC = AB + AB$ — **b.** __?__

$AC = 2(AB)$ — **c.** __?__

4. $m\angle AEB = m\angle CED$ — Given

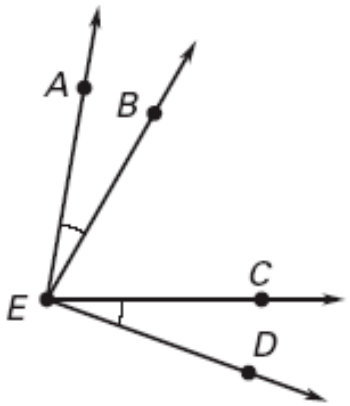
$m\angle BEC = m\angle BEC$ — **a.** __?__

$m\angle AEB + m\angle BEC = m\angle CED + m\angle BEC$ — **b.** __?__

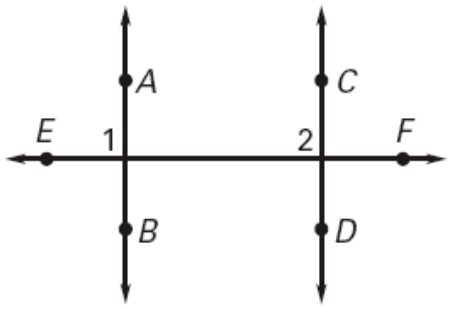
$m\angle AEC = m\angle AEB + m\angle BEC$ — **c.** __?__

$m\angle BED = m\angle CED + m\angle BEC$ — **d.** __?__

$m\angle AEC = m\angle BED$ — **e.** __?__



5. $\overleftrightarrow{AB} \perp \overleftrightarrow{EF}, \overleftrightarrow{CD} \perp \overleftrightarrow{EF}$	Given
$m\angle 1 = 90°$	**a.** __?__
$m\angle 2 = 90°$	**b.** __?__
$m\angle 1 = m\angle 2$	**c.** __?__



Use the property to complete the statement.

6. Reflexive Property of Angle Measure: $m\angle B$ = __?__.

7. Transitive Property of Equality: If $CD = GH$ and $= RS$, then __?__.

8. Addition Property of Equality: If $x = 3$, then $14 + x$ = __?__.

9. Symmetric Property of Equality: If $BC = RL$, then __?__.

10. Substitution Property of Equality: If $m\angle A = 45°$, then $3(m\angle A)$ = __?__.

11. Multiplication Property of Equality: If $m\angle A = 45°$, then __?__ $(m\angle A) = 15°$.