

Practice B

For use with pages 96–101

In Exercises 1–6, use the property to complete the statement.

1. Reflexive property of angle measure: $m\angle T = \underline{\hspace{2cm}} ?$.
2. Transitive property of equality: If $KL = MN$ and $\underline{\hspace{2cm}} ? = RW$, then $\underline{\hspace{2cm}} ?$.
3. Addition property of equality: If $x = 5$, then $17 + x = \underline{\hspace{2cm}} ?$.
4. Symmetric property of equality: If $BC = RL$, then $\underline{\hspace{2cm}} ?$.
5. Substitution property of equality: If $m\angle A = 45^\circ$, then $3(m\angle A) = \underline{\hspace{2cm}} ?$.
6. Multiplication property of equality: If $m\angle A = 45^\circ$, then $\underline{\hspace{2cm}} ? (m\angle A) = 15^\circ$.

Complete the argument, giving a reason for each step.

7. $5(2x - 1) = 9x + 2$ Given

10x - 5 = 9x + 2 a. ?

10x = 9x + 7 b. ?

x = 7 c. ?

9. $AB = BC$ Given

$AC = AB + BC$ a. ?

$AC = AB + AB$ b. ?

$AC = 2(AB)$ c. ?

10. $m\angle AEB = m\angle CED$ Given

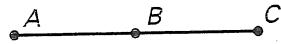
$m\angle BEC = m\angle BEC$ a. ?

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

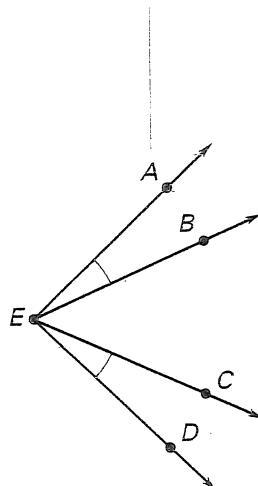
$m\angle AEC = m\angle AEB + m\angle BEC$ c. ?

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

$m\angle AEC = m\angle BED$ e. ?



Given

a. ?b. ?c. ?d. ?e. ?

11. $\overleftrightarrow{AB} \perp \overleftrightarrow{EF}$, $\overleftrightarrow{CD} \perp \overleftrightarrow{EF}$ Given

$m\angle 1 = 90^\circ$ a. ?

$m\angle 2 = 90^\circ$ b. ?

$m\angle 1 = m\angle 2$ c. ?

