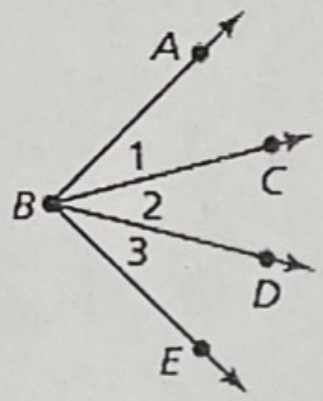
9.4B 19 -25 odd, 26, 51 – 54
9.4B 19-25 impares, 26, 51-54

19. ANALYZING RELATIONSHIPS In the diagram, $m\angle ABD = m\angle CBE$. Show that $m\angle 1 = m\angle 3$. *(See Example 1.)*

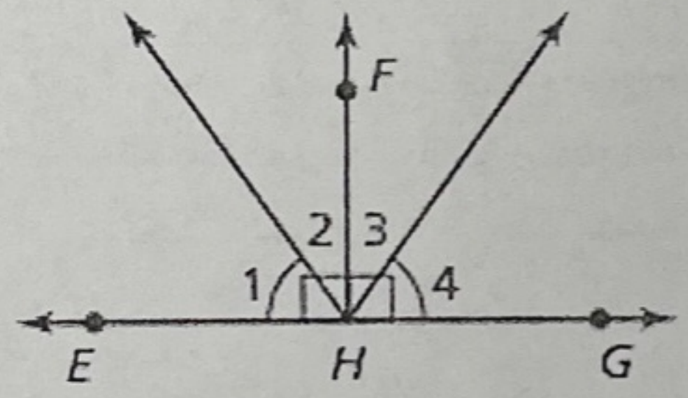
Analisis de Relaciones: En el diagrama $m\angle ABD = m\angle CBE$. Demuestra que $m\angle 1 = m\angle 3$. (Ve el Ejemplo 1.)



Statements / *Declaraciones*	Reasons / *Razones*
1. $m\angle ABD - m\angle CBE$	1.
2. $m\angle ABD = m\angle 1 + m\angle 2$ $m\angle CBE = m\angle 2 + m\angle 3$	2.
3. $m\angle 1 + m\angle 2 = m\angle 2 + m\angle 3$	3.
4. $m\angle 1 = m\angle 3$	4

21. ANALYZING RELATIONSHIPS Copy and complete the table to show that $m\angle 2 = m\angle 3$.

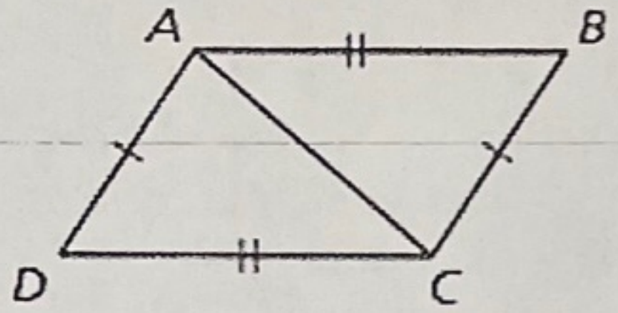
Analisis de Relaciones: Copia y completa la tabla para demostrar que $m\angle 2 = m\angle 3$.



Equation *Ecuación*	**Reason** *Razón*
$m\angle 1 = m\angle 4$, $m\angle EHF = 90°$, $m\angle GHF = 90°$	Given *Dado*
$m\angle EHF = m\angle GHF$	
$m\angle EHF = m\angle 1 + m\angle 2$	
$m\angle GHF = m\angle 3 + m\angle 4$	
$m\angle 1 + m\angle 2 = m\angle 3 + m\angle 4$	
	Substitution Property of Equality
$m\angle 2 = m\angle 3$	

Propiedad de Sustitución de la Igualdad

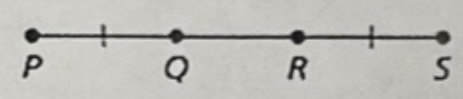
23.



Given: $\overline{AB} \cong \overline{CD}$, $\overline{AD} \cong \overline{BC}$
Dado
Prove: AC + AB + BC = AC + CD + AD
Demuestra

Statements *Declaraciones*	Reasons *Razones*
1. $\overline{AB} \cong \overline{CD}$, $\overline{AD} \cong \overline{BC}$	1.
2. AB = CD, AD = BC	2.
3. AC = AC	3.
4. AC + AB + BC = AC + AB + BC	4.
5. AC + AB + BC = AC + CD + AD	5.

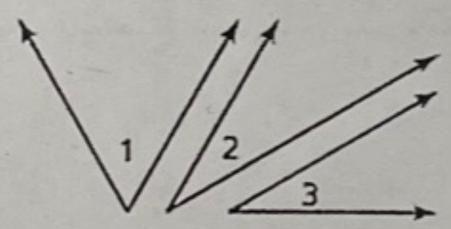
25. Given $PQ = RS$
Dado
Prove $PR = QS$
Demuestra



STATEMENTS *DECLARACIONES*	REASONS *RAZONES*
1. $PQ = RS$	1. _____
2. $PQ + QR = RS + QR$	2. _____
3. _____	3. Segment Addition Postulate *Postulado de la suma de segmentos*
4. $RS + QR = QS$	4. Segment Addition Postulate *Postulado de la suma de segmentos*
5. $PR = QS$	5. _____

26. Given ∠1 is a complement of ∠2.
es ángulo complementario de
∠2 ≅ ∠3

Prove ∠1 is a complement of ∠3.
es ángulo complementario de



STATEMENTS *DECLARACIONES*	REASONS *RAZONES*
1. ∠1 is a complement of ∠2. *es ángulo complementario de*	1. Given *Dado*
2. ∠2 ≅ ∠3	2. _____
3. $m\angle 1 + m\angle 2 = 90°$	3. _____
4. $m\angle 2 = m\angle 3$	4. Definition of congruent angles *Definición de ángulos congruentes*
5. _____	5. Substitution Property of Equality *Propiedad de Sustitución de la Igualdad*
6. ∠1 is a complement of ∠3. *es ángulo complementario de*	6. _____

Use your text book to complete #51 – 54. *Usa tu libro de texto para completar números 51-54.*

51. 52. 53. 54.