| Ch. Sec | Axiom |
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| Definition <br> (D) | Lines, rays, or segments that intersect at right angles are___( $\perp$ ). |



| T | If angles are complementary to the same angle, then they are congruent. |
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| Statements | Reasons |
| :--- | :--- |
| $1 . \angle 3 \operatorname{comp} \angle 4$ |  |
| $2 . \mathrm{m} \angle 3+\mathrm{m} \angle 4=$ |  |
| 3. |  |
| $4 . \angle 5 \operatorname{comp} \angle 4$ |  |
| 5. $\mathrm{m} \angle 5+\mathrm{m} \angle 4=$ |  |
| 6. |  |
| $7 . \angle 3 \cong \angle 5$ |  |

$\mathrm{T} \quad$ If angles are complementary to congruent angles, then they are congruent.

Given: $\quad \angle \mathrm{F}$ comp $\angle \mathrm{G}$
$\angle \mathrm{H} \operatorname{comp} \angle \mathrm{J}$
$\angle \mathrm{G} \cong \angle \mathrm{J}$
Prove: $\angle \mathrm{F} \cong \angle \mathrm{H}$

| Statements | Reasons |
| :--- | :--- |
| 1. $\angle \mathrm{F}$ comp $\angle \mathrm{G}$ | 1. |
| 2. $\angle \mathrm{F}+\angle \mathrm{G}=$ | 2. |
| 3. $\angle \mathrm{F}=$ | 3. |
| 4. $\angle \mathrm{H} \operatorname{comp} \angle \mathrm{J}$ | 4. |
| 5. $\angle \mathrm{H}+\angle \mathrm{J}=$ | 5. |
| 6. $\angle \mathrm{H}=$ | 6. |
| 7. $\angle \mathrm{G} \cong \angle \mathrm{J}$ | 7. |
| 8. $\angle \mathrm{F} \cong \angle \mathrm{H}$ | 8. |



| 2.6 | If segments (or angles) are congruent, their like multiples are congruent. (Multiplication <br> Property) |
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|  |  |
| T segments (or angles) are congruent, their like divisions are congruent. (Division Property) |  |




