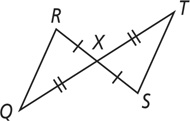
**Objective:**

1. ** Developing Proof** Complete the flow proof.

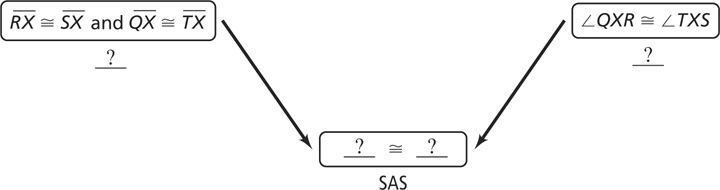
**Given: **

**2. Developing Proof** Complete the two-column proof by filling in the blanks.

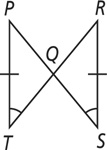
**Given:**  ** bisects ∠*ABC*

**Prove:** ∆*ABD* ≅ ∆*CBD*

|  |  |
| --- | --- |
| **Statements** | **Reasons** |
| 1) bisects ∠*ABC* | 1) Given |
| 2) | 2) Definition of perpendicular |
| 3) *∠ADB* ***≅*** ∠*CDB* | 3) |
| 4) *∠ABD* ≅ ∠*CBD* | 4) |
| 5) | 5) Reflexive Property of **≅** |
| 6) | 6) ASA |

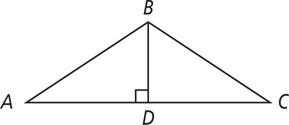
**Prove: ∆***QXR* ≅ ∆*TXS*

Complete the missing parts of the two column proofs below.

**3. Given:** *∠PTR* ≅ *∠RSP*

**Prove:** ∆*PQT* ≅ ∆*RQS*

|  |  |
| --- | --- |
| **Statements** | **Reasons** |
| 1) | 1) Given |
| 2) *∠PQT ≅* ∠*RQS* | 2) |
| 3) | 3) AAS |

**4. Given:** ** is the angle bisector of ∠*ABC* and ∠*ADC.*

**Prove:** ∆*ABD* ≅ ∆*CBD*

|  |  |
| --- | --- |
| **Statements** | **Reasons** |
| 1) | 1) |
| 2) | 2) Definition of ∠ bisector |
| 3) *∠BAD ≅* ∠*BCD* | 3) |
| 4) | 4) |
| 5) | 5) AAS |