**Acc Geometry Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4.6 Isosceles & Equilateral Proof Notes Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Isosceles Triangle Theorems**

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**Prove the Isosceles Triangle Theorem:**

**Given:** $PQ≅RQ$ and $SQ⊥RP$

**Prove:** $∠P≅∠R$

**Prove:**

**The Converse of the Isosceles Triangle Theorem** states**:**



**Equilateral Triangle Theorems**



**1.**



**2.**



**3.**

**4.6 Examples**





**1. m<CFD 2. m<AFB 3. m<ABF 4. m<A**

**5. Find x. 6.**





**7.**