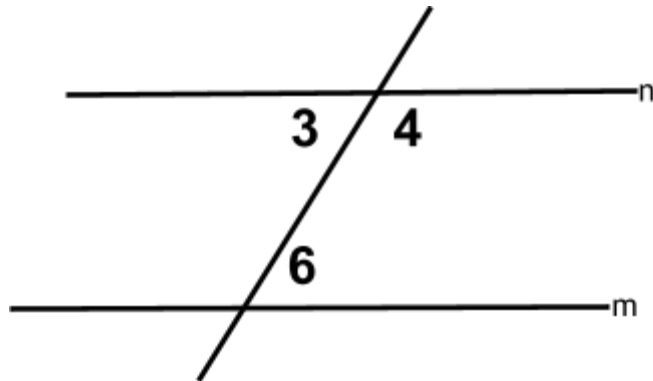Name: _____   Date: _____   Period:_____
Proofs Practice

Alternate Interior Angles Theorem

If n||m, prove that alternate interior angles are congruent. (Hint: ∠3 and ∠6 are alternate interior angles, so just prove that they are congruent)
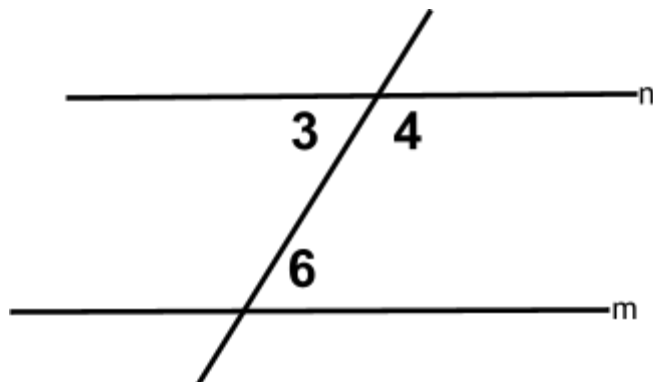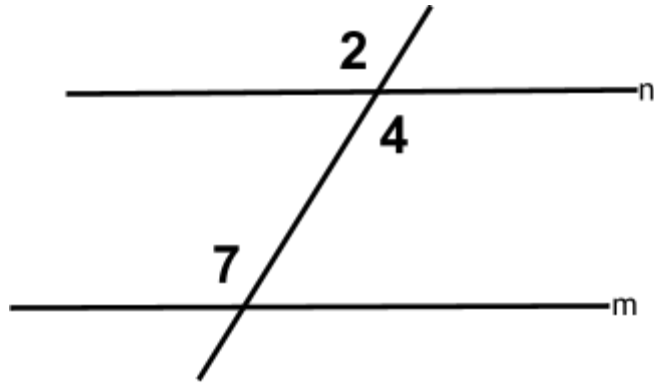
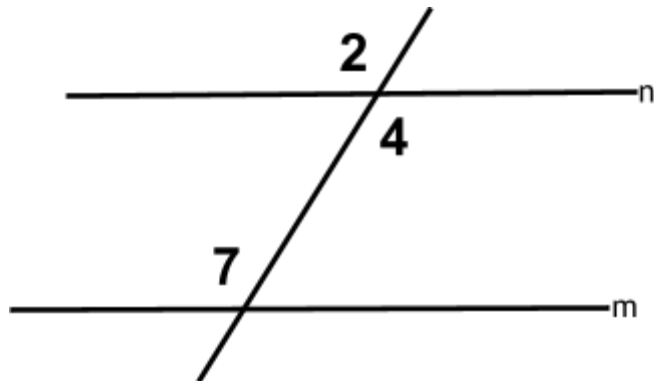| Statement	Reason
1. _____	Linear pair theorem
2. $m\angle 4 + m\angle 6 = 180°$	_____
3. _____	Transitive Property of Equality
4. _____	_____

Corresponding Angles Theorem
If n||m, prove that alternate corresponding angles are congruent.

Statement	Reason
1. m∠4 ≅ m∠7 2. _____ 3. _____	_____ Vertical Angles Theorem _____

Corresponding Angles Theorem
If n||m, prove that alternate corresponding angles are congruent.

Statement	Reason
1. m∠4 ≅ m∠7 2. _____ 3. _____	_____ Vertical Angles Theorem _____