

Geometry Final Exam study:

Add to your list of Euclid's theorems:

I.28

(Optional:

Theorem 28.5 if corresponding angles are congruent, then the lines are parallel

Theorem 28.7 If alternate exterior angles are congruent, then the lines are parallel)

Axiom 5 (the parallel postulate)

I.29: If two lines are parallel and crossed by a transversal then

- i. alternate interior angles are congruent
- ii. alternate exterior angles are congruent
- iii. corresponding angles are congruent
- iv. interior angles on the same side of the transversal add to 180 degrees

I.31

I.32

The sum of angles in a quadrilateral is 360 degrees

I.33

You are likely to be asked to prove:

- one of I.27 or I.29 (one part)
- Use I 27 to prove I 28, etc
- Use one part of I.29 to prove another part
- parallel lines stay the same distance apart
- I.31
- I.32
- I.33
- Construction of a square or rectangle

More questions like those on test 3.