

Math3105
Homework 1
Due next week in class

Homework Assigned:

1. Using the right triangle given to you (on an index card) and graph paper, create three squares whose side lengths correspond the sides of the triangle. Cut up and paste the two smaller squares onto the large square to show that they match in size. Explain how this activity is related to the Pythagorean Theorem.
2. Write a proof for the claim that the sum of the interior angles of any triangle is 180 degrees. (The triangle graph paper may be useful for this.)
3. Prepare a lesson (to teach next week in class). You can choose to teach a Pythagorean Theorem proof or a "convincing" that the sum of the interior angles of a triangle is 180 degrees. You will need to turn in your (brief) lesson plan. You should prepare at least two to three different proofs so we don't have overlap between presentations. Your teaching will last about 5 minutes.

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4. Using the right triangle given to you (on an index card) and graph paper, create three squares whose side lengths correspond the sides of the triangle. Cut up and paste the two smaller squares onto the large square to show that they match in size. Explain how this activity is related to the Pythagorean Theorem.
5. Write a proof for the claim that the sum of the interior angles of any triangle is 180 degrees. (The triangle graph paper may be useful for this.)
6. Prepare a lesson (to teach next week in class). You can choose to teach a Pythagorean Theorem proof or a "convincing" that the sum of the interior angles of a triangle is 180 degrees. You will need to turn in your (brief) lesson plan. You should prepare at least two to three different proofs so we don't have overlap between presentations. Your teaching will last about 5 minutes.