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Introduction to Prime Numbers

Week 1 Problems due Jan 27, 2016 at 23:30 UTC

Homework 1

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PROBLEM 7 (1/1 point)

The twin prime pairs between 50 and 100 are (A, B) and (C, D). Write a prime number in each of the blanks in ascending order.

A :



Answer: 59

B :



Answer: 61

C :



Answer: 71

D :



Answer: 73

You have used 1 of 2 submissions

PROBLEM 8 (2/2 points)

Confirm the Goldbach conjecture for 68. It is known that 68 can be written as a sum of two prime numbers in two different ways. Namely, we have

$$68 = A_1 + B_1 = A_2 + B_2 ,$$

where A_i and B_i are prime numbers satisfying $A_1 < A_2$ and $A_i < B_i$. Calculate A_i and B_i .

A_1

✓ Answer: 7

B_1

✓ Answer: 61

A_2

✓ Answer: 31

B_2

✓ Answer: 37

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