

LAMC Junior Circle

November 4, 2012

Please print your name, first and last, in the space below.

First Name

Last Name

Quiz

Pr #	1	2	3	4	5	Total
Score	$\bar{5}$	$\bar{5}$	$\bar{5}$	$\bar{5}$	$\bar{5}$	$\bar{25}$

Problem 1**5 pts**

$$6 \pmod{5} \equiv$$

$$-11 \pmod{5} \equiv$$

$$1,000,000 \pmod{5} \equiv$$

$$2 \times 4 \equiv \quad \pmod{5}$$

$$3 \div 4 \equiv \quad \pmod{5}$$

Problem 2**5 pts**

One side of a compass's pointer is supposed to show North, the opposite – South. Where on Earth would both sides show North?

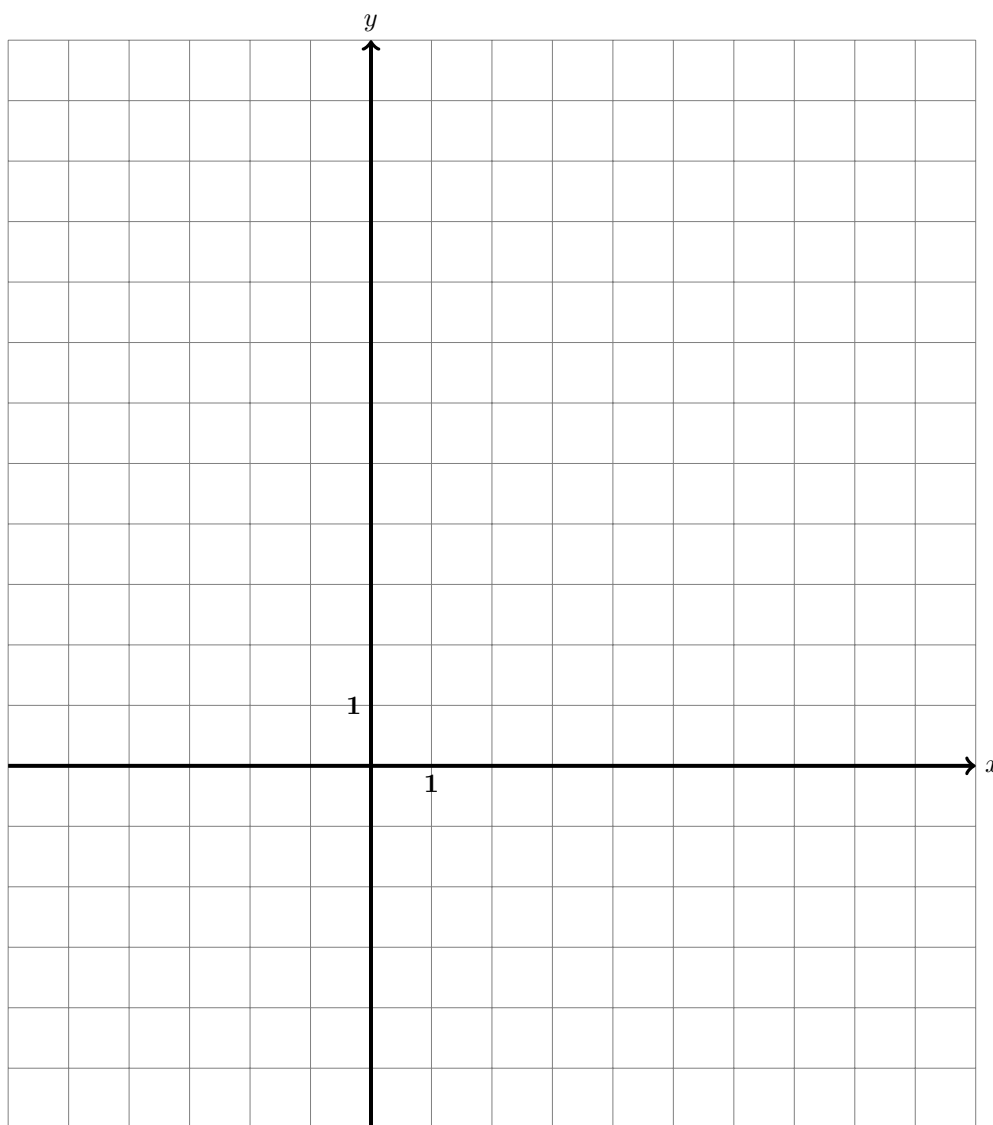
Problem 3

5 pts

Draw the graph of the function

$$y = x - 3$$

on the grid below.



Problem 4**5 pts**

Draw the graph of the function

$$y = |x - 3|$$

on the grid above.

Problem 5**5 pts**

Harry Potter has found a part of an old book of spells. The part begins with page 387. The last page number is made of the same digits, but in a different order. How many pages are there?