

Quantitative Reasoning 28: The Magic of Numbers

Homework 22

Assigned on Wednesday November 28th
Due at 12 noon **Friday** November 30th

Please submit problem sets at the end of the relevant lecture, or leave in the box labeled QR28 outside the Math Department's main office, on the third floor of the Science Center (Room 325).

Reading:

Gross-Harris, Chapter 19

Problems:

Please explain your reasoning and show your work.

1. Compute the following roots:
 - (a) The 3rd root of 7 (mod 11)
 - (b) The 7th root of 3 (mod 13)
 - (c) The 33rd root of 8 (mod 17)