

ASSIGNMENT 10 - MATH235, FALL 2009

Submit by 16:00, Monday, November 23

1. Solve the following equations using the Chinese Remainder Theorem. Find **all** the solutions.

(1) $x^3 - x + 8$ modulo 28.

(2) $x^2 - 9$ modulo 36.

(3) $x^2 + 41$ modulo 165.

2. Do exercise 8 on page 87 of the notes.

In addition do exercises (1), (2), (3), (4) and (8) on pages 113-114 of the notes.