Macm 101 Problem Set 4

Questions in Grimaldi:

4.3 - Q 1-6, 12
4.4 - Q 1 (no linear combination), 4, 5, 9a, 20
4.5 - Q 1-3

More Questions:

1. List five integers that are congruent to 4 modulo 12.

2. Let *a, b* be integers and *m* be a positive integer. Show that if $a \equiv b \bmod m$ then *a mod m = b mod m*.

3. Use the Euclidean algorithm to find gcd(1529, 14039).

4. Prove that n is an even number if and only if 13n+14 is even.