$\underline{\mathbf{H.W}}$

- 1. Determine each of the following greatest common divisors. Which of the pairs are relatively prime?
- gcd(6, 15)
- gcd(8, 17).
- gcd(24, 138).
- gcd(12378, 3054).
- 2. Find the multiplicative inverse of 37 modulo 3120.
- 3. Does 24 have a multiplicative inverse modulo 138 Explain.
- 4. What integers modulo 16 have multiplicative inverses? Determine the inverses.