- 7.1 (a) True.
 - (b) False.
 - (c) False.
 - (d) True.
 - (e) True.
 - (f) True.
- 7.2 (a) False.
 - (b) True.
 - (c) True.
 - (d) True.
 - (e) False.
 - (f) False.
- 7.3 Following Euclids algorithm:
 - (a) Yes.

$$GCD(10505, 1274)$$

$$= GCD(1274, 313)$$

$$= GCD(313, 22)$$

$$= GCD(22, 5)$$

$$= GCD(5, 2)$$

$$= GCD(2, 1)$$

$$= GCD(1, 1)$$

$$= 1$$

(b) No.

$$GCD(8024, 7289)$$

$$= GCD(7289, 740)$$

$$= GCD(740, 629)$$

$$= GCD(629, 111)$$

$$= GCD(111, 74)$$

$$= GCD(74, 37)$$

$$= 37.$$