- (1) [15] For the following system of linear inequalities:
 - (i) [10] Neatly graph the system.
 - (ii) [4] Determine all corner points.
- (iii) [1] State whether the resulting graph is bounded or unbounded.

$$x - y \ge -4$$

$$x + 2y \le 11$$

$$2x + y \le 16$$

$$x \ge 0$$

$$y \ge 0$$