Graphical LP Solution

Enter the following LP problems into QM or TORA and solve them using graphical solution:

1. Minimize $costs = X_1 + X_2$

Subject to $-0.6 X_1 + 0.4 X_2 \le 0$

 $0.2 X_1 + 0.1 X_2 \ge 14$

 $0.25 X_1 + 0.6 X_2 \ge 30$

 $0.15 X_1 + 0.1 X_2 \ge 8$

 $X_1, X_2 \ge 0$

2. Minimize $Z = 3 X_1 + 8 X_2$

Subject to $X_1 + X_2 \ge 8$

 $2 X_1 - 3 X_2 \le 0$

 $X_1 + 2 X_2 \le 30$

 $3 X_1 - X_2 \ge 0$

 $X_1 \le 10$

 $X_2 \ge 9$

 $X_1, X_2 \ge 0$

3. Maximize profit = $5 X_1 + 4 X_2$

Subject to $6 X_1 + 4 X_2 \le 24$

 $6 X_1 + 3 X_2 \le 22.5$

 $X_1 + X_2 \le 5$

 $X_1 + 2 X_2 \le 6$

 $-X_1 + X_2 \le 1$

 $X_2 \leq 2$

 $X_1, X_2 \ge 0$