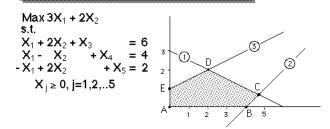


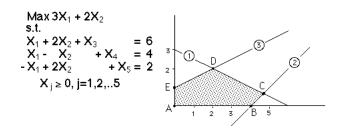
Maximize $3X_1 + 2X_2$ subject to $X_1 + 2X_2 \le 6$ 1 $X_1 - X_2 \le 4$ 2 $-X_1 + 2X_2 \le 2$ 3 $X_1 \ge 0$ 4 $X_2 \ge 0$ 5 Match the 5 constraints with the 5 edges of the

Which variables are basic at each of the extreme points: A, B, C, D, & E?

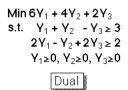


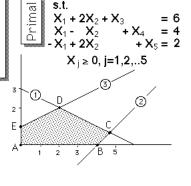
How many basic solutions does this LP have? How many are feasible? ... infeasible?

feasible region



C is optimal... What can be inferred about the dual optimum, by Complementary Slackness Theorem?





 $Max 3X_1 + 2X_2$

