

7. Primal solution: $y_1 = \frac{8}{11}$, $y_2 = \frac{2}{11}$, $y_3 = x_1 = x_2 = 0$, $x_3 = \frac{13}{11}$, $y_0 = \frac{82}{11}$.
9. Minimal cost \$36 $\frac{12}{13}$ using 1 $\frac{11}{13}$ sacks of soybeans and 1 $\frac{11}{13}$ sacks of oats.
11. 4 days A and 2 days B.

Chapter 8.4, Mixed-Constraint Linear Programs

No problems in this section.

Chapter 8.5, Chapter Review

1. Max $f = 43$, $x = 2$, $y = 7$.
3. Max $f = 59$, $x = 11$, $y = 5$.
5. $x_1 = 0$, $x_2 = 5$, $x_3 = 1$, $y_1 = 2$, $y_2 = 0$, $y_0 = 10$.
7. $y_1 = \frac{62}{7}$, $y_2 = \frac{60}{7}$, $x_1 = 0$, $x_2 = \frac{10}{7}$, $x_3 = 0$, $y_0 = \frac{428}{7}$.
9. Min $T = 18$, $x = 2$, $y = 4$.
11. Max \$82,500, 125 X, 50 Y, and 0 Z