

Problem #1

| X_1 | X_2 | -3 | $-X_5$ | Problem 1 |
|-------|-------|----|--------|-----------|
| 1 | -2 | 3 | 4 | = x_4 |
| 1 | -2 | 0 | 3 | = $-x_2$ |
| 0 | 2 | -3 | 0 | --> max |

Put into standard form.

| X_1 | X_2 | X_5 | 1 | Problem 1 |
|-------|-------|-------|----|-----------|
| 1 | -2 | -4 | -9 | = x_4 |
| -1* | 2 | 3 | 0 | = x_2 |
| 0 | -2 | 0 | -9 | --> min |

Pivot

| X_2 | X_2 | X_5 | 1 | Problem 1 |
|-------|-------|-------|----|-----------|
| -1 | 0 | -1 | -9 | = x_4 |
| -1 | 2 | 3 | 0 | = x_1 |
| 0 | -2 | 0 | -9 | --> min |

Combine x_2 columns

| X_2 | X_5 | 1 | Problem 1 |
|-------|-------|----|-----------|
| -1 | -1 | -9 | = x_4 |
| 1 | 3 | 0 | = x_1 |
| -2 | 0 | -9 | --> min |

X_4 is a bad row. Infeasible ($\min = \infty$, $\max = -\infty$)