```
Optimal solution found:

x1 = 8×1

10<sup>4</sup> ×

6.0000

3.0000

0

4.0000

7.5000

0

0
```

```
%% min 50x_1 + 20x_2 + 30x_3 + 80x_4
f = [50; 20; 30; 80];
A = [-400, -200, -150, -500;
    -3, -2, 0, 0;
    -2, -2, -4, -4;
    -2 -4 -1 -5];
b = [-500; -6; -10; -8];
lb = [0;0;0;0];

x = linprog(f, A, b, [], [], lb, [])
```

Optimal solution found. $x = 4 \times 1$

3.0000 1.0000

0