Practice Cases Solution
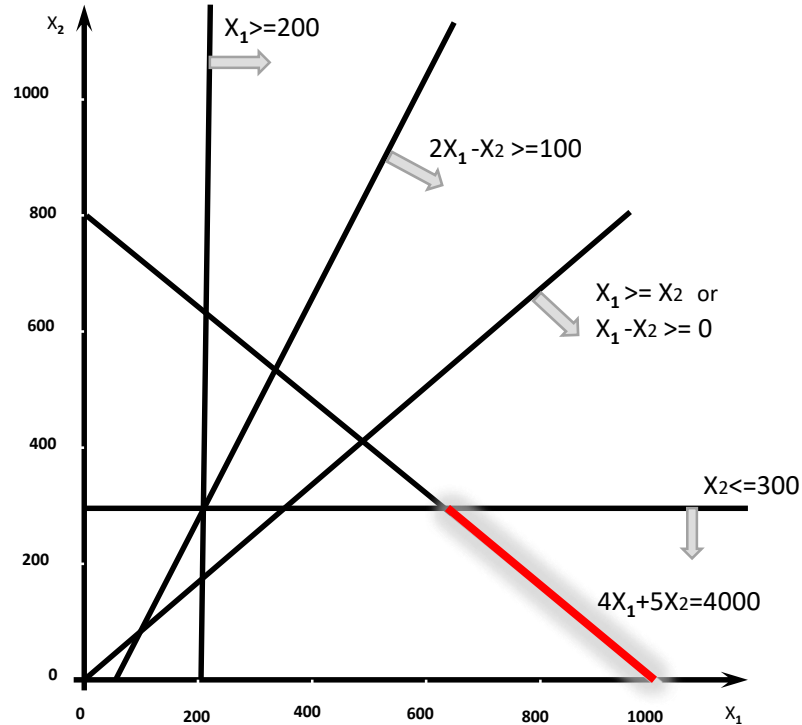
Drawing Special Lines

- $X_1 >= 200$

- $X_2 <= 300$

- $X_1 >= X_2$

- $2X_1 - X_2 >= 100$

- $4X_1 + 5X_2 = 4000$

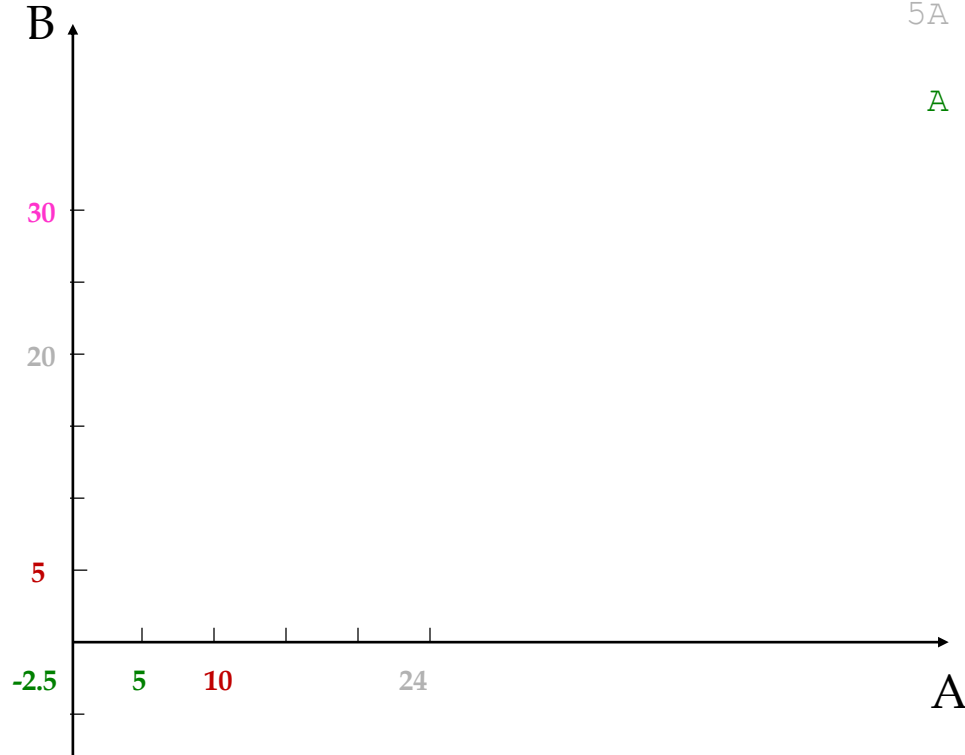# Drawing Special Lines (Solution)

- $X_1 >= 200$

- $X_2 <= 300$

- $X_1 >= X_2$

- $2X_1 - X_2 >= 100$

- $4X_1 + 5X_2 = 4000$

B

Min \$10A + \$20B
ST
5A + 6B >= 120
    B <= 30
 A - 2B <=   5
  A, B >= 0

30

20

5

-2.5   5   10   24

A

Another Graphical Solution Problem
Give it a try - solve graphically

B

Min $10A + $20B
ST
5A + 6B >= 120
B <= 30
A - 2B <= 5
A, B >= 0

30

Feasible
Region

Solve 5A + 6B = 120 and A − 2B = 5 simultaneously:
A = 135/8; B = 95/16

20

Optimal
Solution

5

-2.5   5   10   24

A