

Primal

Maximize $5x_1 + 8x_2$ s.t.

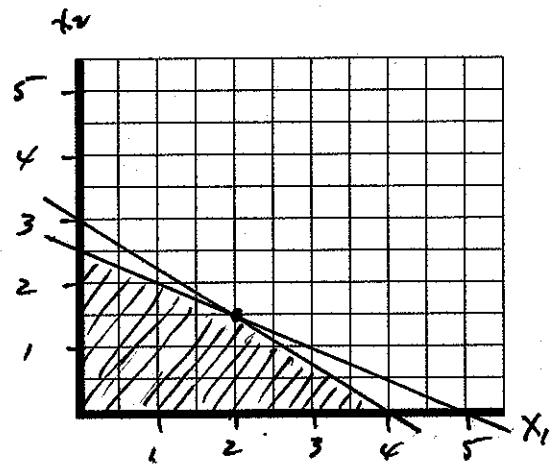
$x_1 \geq 0, x_2 \geq 0$ and

$$1x_1 + 2x_2 \leq 5$$

$$3x_1 + 4x_2 \leq 12$$

Corner
points

x_1	x_2	$5x_1 + 8x_2$
0	0	0
4	0	20
2	1.5	22 * optimal
0	2.5	20



Dual

Minimize $5y_1 + 12y_2$ s.t.

$y_1 \geq 0, y_2 \geq 0$ and

$$1y_1 + 3y_2 \geq 5$$

$$2y_1 + 4y_2 \geq 8$$

Corner
points

y_1	y_2	$5y_1 + 12y_2$
5	0	25
2	1	22 * optimal
0	2	24

