p324/2

Restrictions

$x \in R, y \in R$

Constraints

$x \geq 0$

$y \leq 0$

- $3y \geq -2x + 3$
- $y \geq 2x - 7$

Objective function:

$D = -5x + 3y$

$3y = -2x + 3$

x int: $0 = -2x + 3$

$2x = 3$

$x = 1.5$ $(1.5, 0)$

y int: $3y = 0 + 3$

$3y = 3$

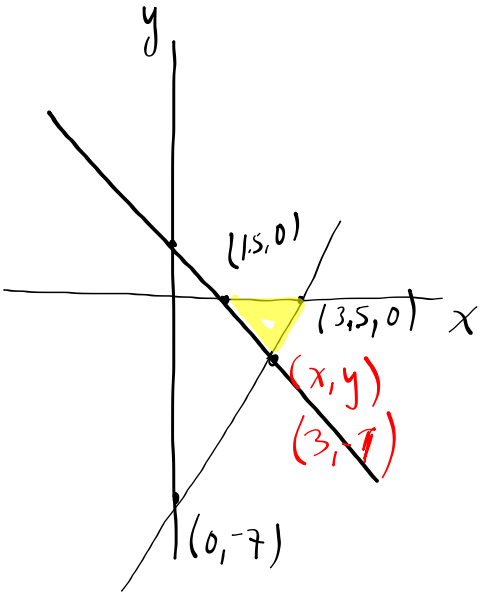
$y = 1$ $(0, 1)$

y-int $= -7$ $(0, -7)$

x-int: $0 = 2x - 7$

$2x = 7$

$x = 3.5$ $(3.5, 0)$



$3y = -2x + 3$

$y = 2x - 7$

$3(2x - 7) = -2x + 3$

$6x - 21 = -2x + 3$

$8x = 24$

$x = 3$ $y = -1$

$(3, -1)$