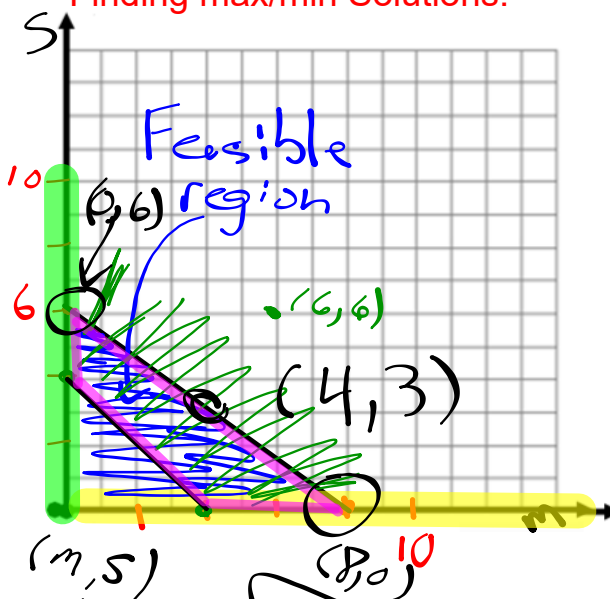


Feb. 19, 2020

Finding max/min Solutions:



The following model represents an optimization problem

Determine the maximum solution

Optimization Model

Restrictions:

$$m \in \mathbb{R}, s \in \mathbb{R}$$

Constraints:

$$m \geq 0$$

$$s \geq 0$$

$$3m + 4s \leq 24$$

$$m + s \geq 4$$

Objective function:

$$T = 1.5m + 4.2s$$

$$\text{Sint: } 4s = 24$$

$$s = 6$$

$$\text{mint } 3m = 24$$

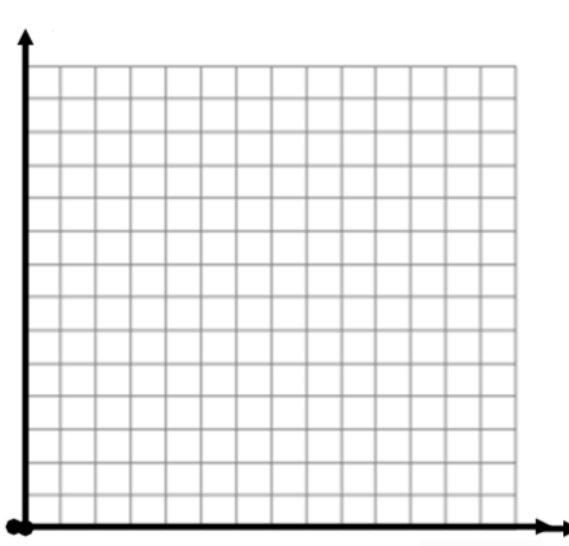
$$m = 8$$

(m, s)
 $(0, 6)$
 $1.5(0) + 4.2(6)$
 $T = 25.2$

$(8, 0)$
 $1.5(8) + 4.2(0)$
 $T = 12$

Page 260 #2, #3 & #5

Feb. 19, 2020



Test Review (Chapter 5) RF1
Foundations of mathematics 11

Name : _____

Period : _____

Test Friday Feb. 21

-
1. Solve these inequalities.
- a) $3x + 8 < 24$
- b) $-6x \geq 24$
2. Determine the x-intercept and y-intercept for the following:
- $6y = 2x + 12$
-
3. Draw the graph for the following inequalities and shade the feasible region.
- a) $2x + 4y \geq 16$
- b) $y \geq 2x - 1$ and $y < x + 5$

Attachments

6Ws4e1.mp4

6Ws4e2.mp4