

Grade 10th. Algebra. Quiz #2

Name: _____.

1 Exercises

Exercise 1.1. Maximize $f(x, y) = x + 6y$. $x \geq 0$; $y \geq 0$; $x + 4y \leq 8$; $x + y \leq 5$.

Exercise 1.2. Solve the system

$$\begin{cases} 3x - y + 2z = 15 \\ x - 2y - z = -5 \\ 5x + 2y + z = 5 \end{cases}$$

Exercise 1.3. Solve for X

$$\begin{pmatrix} 2 & -1 \\ 2 & -5 \\ -1 & 3 \end{pmatrix} - 3X = \begin{pmatrix} 1 & 7 \\ -4 & 8 \\ -3 & 1 \end{pmatrix} \times \begin{pmatrix} 6 & -7 \\ 2 & -3 \end{pmatrix}$$

Date: monday, may 6th, 2024