1)A lumber yard has fixed costs of $1463.00 a day and variable costs of $1.00 per boardfootproduced. The company gets $2.40 per board-foot sold. How many board-feet mustbe produced daily to break even?

2)Use the echelon method to solve the system of three equations in three unknowns.

2x + 4y + z = 22

4x - 4y - z = 2

4x + y + 4z = 12

3)Solve the system of equations. Let z be the parameter.

7x + 3y + 5z = 0

3x + y + 2z = 0

4)Use the Gauss-Jordan method to solve the system of equations.

5x - y + z = 8

7x + y + z = 6

12x + 2z = 14

5)

6)



7) Martina bought 5 books to bring on vacation. However she decided that her bag was tooheavy and that she wouldn't bring all of them. How many possible subsets are there if she brings at least one book but not all 5 books?

8) If n(A) = 25, n(A u B) = 73, and n(A ∩ B) = 21; what is n(B)