

Question 10

10.1. Solve the system

$$\begin{cases} x + y + z = 10 \\ x + y + z = 10 \end{cases} \quad (10)$$

10.2. Solve the system $x + y + z = 10$. Express your answer in terms of two free variables. (10)

$$\begin{cases} x + y + z = 10 \\ x + y + z = 10 \end{cases} \quad (10)$$

$$\begin{cases} x + y + z = 10 \\ x + y + z = 10 \end{cases} \quad (10)$$

10.3. Solve the system of linear equations

$$\begin{cases} x + y + z = 10 \\ x + y + z = 10 \end{cases} \quad (10)$$

Question 11

11.1. The matrix of a quadratic equation is given by

$$A = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ 3 & 6 & 9 \end{pmatrix}$$

11.2. If $x = 1$, determine the values of y and z . (10)

11.3. Determine the values of x for which the matrix is invertible. (10)

11.4. For what values of x is the matrix A invertible? (10)

Question 12

12.1. Simplify the following expression

$$\frac{1}{x^2} - \frac{1}{x^3} + \frac{1}{x^4} \quad (10)$$

$$\frac{1}{x^2} - \frac{1}{x^3} + \frac{1}{x^4} \quad (10)$$

12.2. Show that $\frac{1}{x^2} - \frac{1}{x^3} + \frac{1}{x^4}$ is a rational function of x . (10)

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