

## Pre-Test Matrices

1. What are the dimensions of the matrix  $A^t$  and find  $A^t \times A$

from 
$$A = \begin{bmatrix} 2 & 0 & -4 \\ -3 & 5 & 7 \end{bmatrix}$$

2. Write the following system of equations as an augmented matrix.

$$2z - 7 + y = x$$

$$17 + 2y = 7x$$

$$6y - 3x - 52 = 0$$

And find  $x, y, z$  by matrix method.

3. Find  $\text{adj}(A)$  and  $A^{-1}$  from matrix  $A$

$$A = \begin{bmatrix} 1 & 4 & 1 \\ 3 & 1 & 2 \\ 2 & 1 & 3 \end{bmatrix}$$