

Feb. 18

2.1 Modeling Matrices

$$[A] = \begin{bmatrix} 5 & 4 & 7 & -1 \\ 3 & 2 & 6 & 8 \\ 9 & 0 & 4 & 1 \end{bmatrix}$$

Rows Columns

Size = 3×4

$$A^{23} = 6$$

$$A^{14} = 7$$

Column Matrix

$$\begin{bmatrix} 3 \\ 5 \\ -1 \end{bmatrix}$$

One Column
Many rows

Row Matrix

$$[2 \quad -6 \quad 4]$$

One row
Many columns

Textbook Pg.53 Example #2:

Create matrices of the tables on your calculator and add the matrices to determine the new long distance rates

$$[A] = 4 \times 2$$

To add matrices they MUST be the same size.

Multiplying a Matrix by a Constant

We want to increase every value of matrix [A] by 2.5 times.

$$2.5 * [A]$$

2.5*[A]	[[16 9] [13 11]]		
	[[37.5 25] [35 35] [45 20] [35 30]]	C I C II C III C IV	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Sam- 6pm</p> <div style="border: 1px solid blue; padding: 5px; display: inline-block;"> <p>37.5 35 45 35</p> </div> </div> <div style="text-align: center;"> <p>6pm- Sam.</p> <div style="border: 1px solid blue; padding: 5px; display: inline-block;"> <p>25 35 20 30</p> </div> </div> </div>

Assignment: Pg. 55 1-8