Answers

1. OKLAHOMA_

2. a. $X = \begin{bmatrix} 183464 \\ 304005 \\ 42037 \end{bmatrix}$

   b. To produce the quantities given in the *D*emands matrix, it is necessary to produce 42,037 worth of transportation.

   c. The 0.41 means that it is necessary to use \$0.41 worth of sector 3 (transportation) for each \$1.00 worth of sector 2 (industry) that is produced.

   d. The input is Industry (Row 2) The output is Agriculture (Column 3), so the coefficient is 0.71.
   It takes 0.071 x \$10.00 = \$0.71, or 71 cents.

3. a. 3

   b. E

   c. AE = A

   d. $E - A = \begin{bmatrix} 0 & -14 & -2 \\ -2 & -7 & -1 \\ -9 & -3 & -3 \end{bmatrix}$

4.

a.	3x2	f.	NA
b.	NA	g.	2x3
c.	3x3	h.	NA
d.	NA	i.	3x2
e.	3x2	j.	2x2

5. x = 2
   y = 1
   z = 4
   w = 3