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## Augmented matrices worksheet

Do the line operations below Write the Dies in the form of a reduced row rung 4 
$$\begin{bmatrix} 2 & 1 & 1 \\ 3 & 2 & 1 \\ 5 & 3 & 1 \end{bmatrix}$$
 and 
$$\begin{bmatrix} 2 & 2 & 6 \\ 5 & 3 & 8 \end{bmatrix}$$
 Solve The Systems Using Augmented Matrices B)  $x-y-z=6$   $2y-5z=4$   $2x-5y-z=5$  C)  $3x-4y-4z=7$   $x-y-z=2$   $2x-3y-6z=5$  Source: Kevin Pinegar This resource has not yet been published. He's waiting for moderation. Focus on computational skills. Convert from the linear system to the raised matrix and back. Do online operations. Solutions included. Uncomment 'printanswers' line before compiling to show solutions. LicenseCC-BY-NC-SA-4.0Created August 7, 20183 yearsViews2Type HandoutTimeframe In-classPerspective ExampleLanguage EnglishContent Typetext/html; charset=utf-8Prior exposure to relevant content. Requires pencil and paper work. May cause difficulties for students with writing disabilities. In order to continue to enjoy our site, we ask you to confirm your identity as a human being. Thank you very much for your cooperation. Mobile Review You appear to be on a device with a narrow screen width (i.e. you're probably on a mobile phone). Due to the nature of mathematics on this site, it is preferable to views in landscape mode. If your device is not in landscape mode, many equations will run on the side of your device (should be able to scroll to see them) and some menu items will be cut off due to the narrow width of the screen. Note: Problems with using augmented dies to solve equation systems can be found in the next section. In this worksheet, we will practice interpreting augmented dies and representing linear equation systems as an augmented matrix. Write the augmented matrix for the following equation system:  $x-y-z=5$ ,  $y-z=2$ ,  $x+y-z=2$ . A 
$$\begin{bmatrix} 1 & -1 & -1 & -2 & 1 & -2 \\ 0 & 1 & -1 & -2 & 0 & 2 \\ 1 & 0 & -1 & -2 & 1 & -2 \end{bmatrix}$$
 B 
$$\begin{bmatrix} 1 & -1 & -1 & -2 & 1 & -2 \\ 0 & 1 & -1 & -2 & 0 & 2 \\ 1 & 1 & -1 & -2 & 1 & -2 \end{bmatrix}$$
 C 
$$\begin{bmatrix} 1 & -1 & -1 & -2 & 1 & -2 \\ 0 & 1 & -1 & -2 & 0 & 2 \\ 1 & 1 & -1 & -2 & 1 & -2 \end{bmatrix}$$
 D 
$$\begin{bmatrix} 1 & -1 & -1 & -2 & 1 & -2 \\ 0 & 1 & -1 & -2 & 0 & 2 \\ 1 & 1 & -1 & -2 & 1 & -2 \end{bmatrix}$$
 E 
$$\begin{bmatrix} 1 & -1 & -1 & -2 & 1 & -2 \\ 0 & 1 & -1 & -2 & 0 & 2 \\ 1 & 1 & -1 & -2 & 1 & -2 \end{bmatrix}$$
 Fill the void: For the equation system defined by 2 equations of 3 variables, the size of the increased matrix is. Which of the following augmented dies represents the pair of equations  $2x+3y=1$  and  $2x+3y=1$ ? A 
$$\begin{bmatrix} 2 & 3 & 1 & 1 \\ 2 & 3 & 1 & 1 \end{bmatrix}$$
 B 
$$\begin{bmatrix} 2 & 3 & 1 & 1 \\ 2 & 3 & 1 & 1 \end{bmatrix}$$
 C 
$$\begin{bmatrix} 2 & 3 & 1 & 1 \\ 2 & 3 & 1 & 1 \end{bmatrix}$$
 D 
$$\begin{bmatrix} 2 & 3 & 1 & 1 \\ 2 & 3 & 1 & 1 \end{bmatrix}$$
 E 
$$\begin{bmatrix} 2 & 3 & 1 & 1 \\ 2 & 3 & 1 & 1 \end{bmatrix}$$
 True or False: Number of columns in the matrix equations equal to the number of columns in the coefficient matrix of this system. From the augmented matrix 
$$\begin{bmatrix} 1 & -1 & -1 & -2 & 1 & -2 \\ 0 & 1 & -1 & -2 & 0 & 2 \\ 1 & 0 & -1 & -2 & 1 & -2 \end{bmatrix}$$
 find the coefficient matrix. A 
$$\begin{bmatrix} 1 & -1 & -1 \\ 0 & 1 & -1 \\ 1 & 0 & -1 \end{bmatrix}$$
 B 
$$\begin{bmatrix} 1 & -1 & -1 \\ 0 & 1 & -1 \\ 1 & 0 & -1 \end{bmatrix}$$
 C 
$$\begin{bmatrix} 1 & -1 & -1 \\ 0 & 1 & -1 \\ 1 & 0 & -1 \end{bmatrix}$$
 D 
$$\begin{bmatrix} 1 & -1 & -1 \\ 0 & 1 & -1 \\ 1 & 0 & -1 \end{bmatrix}$$
 E 
$$\begin{bmatrix} 1 & -1 & -1 \\ 0 & 1 & -1 \\ 1 & 0 & -1 \end{bmatrix}$$
 From the augmented matrix 
$$\begin{bmatrix} 1 & -1 & -1 & -2 & 1 & -2 \\ 0 & 1 & -1 & -2 & 0 & 2 \\ 1 & 0 & -1 & -2 & 1 & -2 \end{bmatrix}$$
 find the equation system. A 
$$9x-y=8$$
  $6x-7y=9$  B 
$$9x-y=8$$
  $6x-7y=9$  C 
$$9x-y=8$$
  $6x-7y=9$  D 
$$9x-y=8$$
  $6x-7y=9$  E 
$$9x-y=8$$
  $6x-7y=9$  True or False: The matrix formed from the coefficients of variables in a system of linear equations is called a matrix. Find the augmented matrix for the following equation system:  $8x-6y-3z=9$   $0.9y-8z=3$   $0.3z-6y-9x=8$   $0$ . A 
$$\begin{bmatrix} 8 & -6 & -3 & 9 & 0 & 9 \\ 0 & 9 & -8 & 3 & 0 & 3 \\ 0 & -6 & -9 & -8 & 0 & 8 \end{bmatrix}$$
 B 
$$\begin{bmatrix} 8 & -6 & -3 & 9 & 0 & 9 \\ 0 & 9 & -8 & 3 & 0 & 3 \\ 0 & -6 & -9 & -8 & 0 & 8 \end{bmatrix}$$
 C 
$$\begin{bmatrix} 8 & -6 & -3 & 9 & 0 & 9 \\ 0 & 9 & -8 & 3 & 0 & 3 \\ 0 & -6 & -9 & -8 & 0 & 8 \end{bmatrix}$$
 D 
$$\begin{bmatrix} 8 & -6 & -3 & 9 & 0 & 9 \\ 0 & 9 & -8 & 3 & 0 & 3 \\ 0 & -6 & -9 & -8 & 0 & 8 \end{bmatrix}$$
 E 
$$\begin{bmatrix} 8 & -6 & -3 & 9 & 0 & 9 \\ 0 & 9 & -8 & 3 & 0 & 3 \\ 0 & -6 & -9 & -8 & 0 & 8 \end{bmatrix}$$
 Find the size of the increased matrix for the following equation system for the following equation system: 
$$\begin{bmatrix} 1 & 1 & 1 \\ 9 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$$
 True or false: The coefficient matrix has fewer columns than the increased matrix. Find the augmented matrix for the following equation system:  $9x-5y-9=0$   $8y-7=0$ . A 
$$\begin{bmatrix} 9 & -5 & -9 & 0 & 8 & -7 \\ 0 & 8 & -7 & 0 & 0 & 0 \end{bmatrix}$$
 B 
$$\begin{bmatrix} 9 & -5 & -9 & 0 & 8 & -7 \\ 0 & 8 & -7 & 0 & 0 & 0 \end{bmatrix}$$
 C 
$$\begin{bmatrix} 9 & -5 & -9 & 0 & 8 & -7 \\ 0 & 8 & -7 & 0 & 0 & 0 \end{bmatrix}$$
 D 
$$\begin{bmatrix} 9 & -5 & -9 & 0 & 8 & -7 \\ 0 & 8 & -7 & 0 & 0 & 0 \end{bmatrix}$$
 E 
$$\begin{bmatrix} 9 & -5 & -9 & 0 & 8 & -7 \\ 0 & 8 & -7 & 0 & 0 & 0 \end{bmatrix}$$
 True or false: If we have the coefficient matrix of a linear equation system, we can find the augmented matrix of that system. True or false: If we have the augmented matrix of a system of linear equations, we can find the coefficient matrix of that system. Find the system of equations of the following augmented matrix: 
$$\begin{bmatrix} 1 & 1 & 1 \\ 9 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$$
 A 
$$9x-7y-5z=4$$
  $9x-4y-7z=5$   $4x-7y-5z=9$  B 
$$9x-7y-5z=4$$
  $9x-4y-7z=5$   $4x-7y-5z=9$  C 
$$9x-7y-5z=4$$
  $9x-4y-7z=5$   $4x-7y-5z=9$  D 
$$9x-7y-5z=4$$
  $9x-4y-7z=5$   $4x-7y-5z=9$  E 
$$9x-7y-5z=4$$
  $9x-4y-7z=5$   $4x-7y-5z=9$  If the order of a coefficient matrix is  $2 \times 2$ , what is the order of its increased matrix? Consider the augmented matrix 
$$\begin{bmatrix} 1 & 1 & 1 \\ 19 & 23 & 13 & 92 & 3 & 92 & 1 \\ 1 & 1 & 1 \end{bmatrix}$$
. Find the coefficient matrix. A 
$$\begin{bmatrix} 19 & 23 & 13 \\ 92 & 3 & 92 \end{bmatrix}$$
 B 
$$\begin{bmatrix} 19 & 23 & 13 \\ 92 & 3 & 92 \end{bmatrix}$$
 C 
$$\begin{bmatrix} 19 & 23 & 13 \\ 92 & 3 & 92 \end{bmatrix}$$
 D 
$$\begin{bmatrix} 19 & 23 & 13 \\ 92 & 3 & 92 \end{bmatrix}$$
 E 
$$\begin{bmatrix} 19 & 23 & 13 \\ 92 & 3 & 92 \end{bmatrix}$$
 Find the size of the increased matrix for the following matrix shape: 
$$\begin{bmatrix} 1 & 1 & 1 \\ 112 & 1 & 11 & 23 & 116 \\ 1 & 1 & 1 \end{bmatrix}$$
 A 
$$\begin{bmatrix} 1 & 1 & 1 \\ 112 & 1 & 11 & 23 & 116 \\ 1 & 1 & 1 \end{bmatrix}$$
 B 
$$\begin{bmatrix} 1 & 1 & 1 \\ 112 & 1 & 11 & 23 & 116 \\ 1 & 1 & 1 \end{bmatrix}$$
 C 
$$\begin{bmatrix} 1 & 1 & 1 \\ 112 & 1 & 11 & 23 & 116 \\ 1 & 1 & 1 \end{bmatrix}$$
 D 
$$\begin{bmatrix} 1 & 1 & 1 \\ 112 & 1 & 11 & 23 & 116 \\ 1 & 1 & 1 \end{bmatrix}$$
 E 
$$\begin{bmatrix} 1 & 1 & 1 \\ 112 & 1 & 11 & 23 & 116 \\ 1 & 1 & 1 \end{bmatrix}$$
 Consider the following equation system:  $x-2y-z=4$   $2x-y-z=3$   $x-3z=2$ . What is the size of the increased matrix for the equation system?

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