

# **Math Virtual Learning**

# College Algebra

May 20, 2020



College Algebra Lesson: May 20, 2020

Objective/Learning Target:
Students will use reduced row echelon form to solve systems of equations.



### Warm Up Activity:

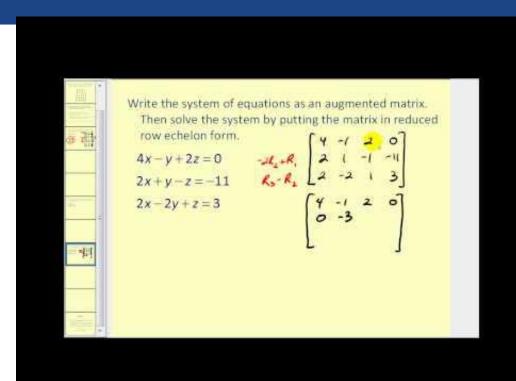
**Practice Row Operations** 

**Row Operations** 



#### Lesson:

Watch this video on how to put an augmented matrix into reduced row echelon form. We encourage you to have your own sheet of paper out and work along with the video.





#### **Practice:**

Matrix operations and Row Echelon Practice

**Practice** 

\*NOTE: step by step solutions included\*



## Additional Practice: Find the reduced row echelon form of each of the following matrices

1) 
$$x + y + z = 6$$
  
 $x - y + z = 10$   
 $2x + 2y - z = 3$ 

2) 
$$2x - 7y - z = -3$$
  
 $x - 3y + z = -1$   
 $4x - y + 2z = 7$ 

3) 
$$2x - y - z = -5$$

$$x + 3y + z = 6$$

$$3x - y - 2z = -7$$

4) 
$$x + 2y + z = 0$$
  
 $2x + y + 2z = 3$   
 $x - y + z = 2$ 



#### **Additional Practice Answers:**

1) 
$$x = 5, y = -2, z = 3$$
 2)  $x = 2, y = 1, z = 0$ 

3) 
$$x = -1, y = 2, z = 1$$
 4) No Solution