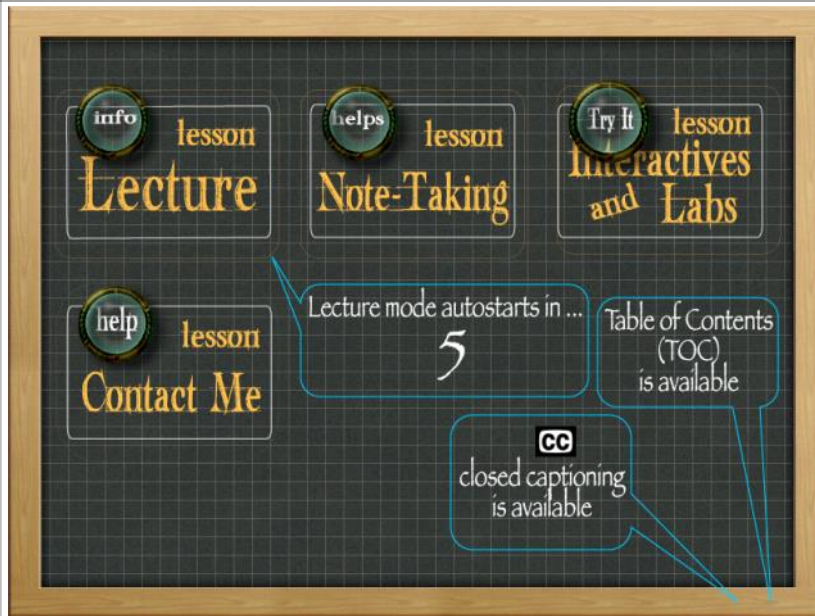


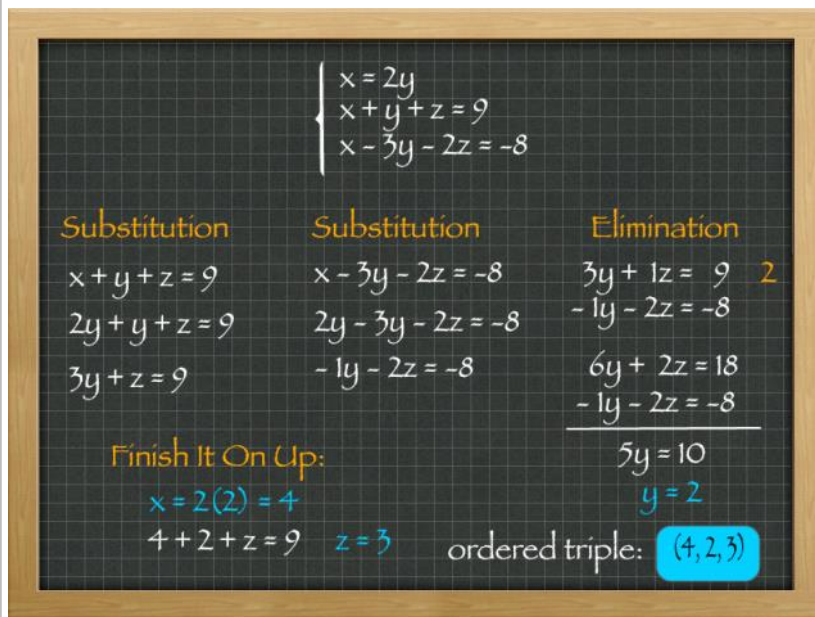
# Ordered Triples

Thursday, January 19, 2012  
5:28 PM

Slides



Notes



You will love how this one is just a tiny step beyond what you have already learned.

From past lessons you can solve all of this. Your answer was reported as  $y=2$ ,  $x=4$ , and  $z=3$ .

All there is to this lesson is that you can report your answer as an ordered triple. It is a lot like when you write an ordered pair where you have parentheses and you list the  $x$  coordinate, then a comma, then the  $y$ -coordinate, and finish it all up with an end parentheses. Take a look at how similar this is. An ordered triple will list the  $x$ ,  $y$ , and then last the  $z$ . That is all there is to it. It is just another format option for your answers when you have three variables in a system of equations.

Try It

$$\begin{cases} x = 3z \\ 2x + 2y - z = 12 \\ 3x - y + 2z = 21 \end{cases}$$

Next

Substitution	Substitution	Elimination
$2(3z) + 2y - z = 12$	$3(3z) - y + 2z = 21$	$2y + 5z = 12$
$6z + 2y - z = 12$	$9z - y + 2z = 21$	$-1y + 11z = 21$ 2
$2y + 5z = 12$	$-y + 11z = 21$	$2y + 5z = 12$
		$-2y + 22z = 42$
		<hr/>
		$27z = 54$
		$z = 2$

Finish It On Up:

$x = 3(2) = 6$

$3(6) - y + 2(2) = 21$        $z = 1$       ordered triple: (6, 2, 1)

Congratulations!  
You have completed  
this topic

Give us feedback about  
this lesson if you wish...

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