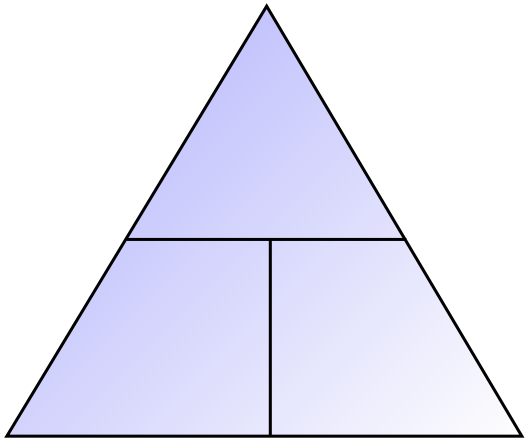
VI. Uniform Motion (p.200): distance = rate × time



STEP 3	distance	speed	time
Event 1			
Event 2			

fill-in 2 columns w/given info, then use these two quantities to fill-in the missing 3rd column...

VII. Misc. Examples (p.206): Exercises #32,38,24?

HW: pp.205-207 / Exercises #31,35,37,47,49

Read pp.208-214 (section 3.3)

I. Systems of Linear Equations (in 3-variables):

$$a_1x + b_1y + c_1z = d_1$$
$$a_2x + b_2y + c_2z = d_2$$
$$a_3x + b_3y + c_3z = d_3$$

where a_i, b_i, c_i and d_i are real # constants

e.g., $2x + y - 2z = -1$
$3x - 3y - z = 5$
$x - 2y + 3z = 6$

whose solution is $(x,y,z) = (1,-1,1)$

since $2(1) + (-1) - 2(1) = -1$

and $3(1) - 3(-1) - (1) = 5$

and $(1) - 2(-1) + 3(1) = 6$

II. Methods of Solution:

1. Elimination (p.210) – "reduce" to a 2 equation system
2. Graphing and/or substitution – not viable (not covered)
3. Matrix strategies – sections 3.4-3.5 (omit/not covered)

III. Example (p.215): Exercises #6