

**Math 210 E**  
**Homework 4**

**Spring 2013**  
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**Reading:**

Chapter 2.3 and 2.4

**Problems:**

Section 2.3: 19

Section 2.4: 1, 6, 7, 12, 13, 14, 23

**Additional Problems:**

**A.1.** Use elimination to solve the following system for  $x, y, z$ :

$$\begin{cases} ax + by + cz = 0 \\ Ax + By + Cz = 0 \end{cases}$$

You may assume that the vector  $(a, b, c)$  is not a multiple of  $(A, B, C)$ .  
(What happens if it is?) Describe your solution geometrically.