

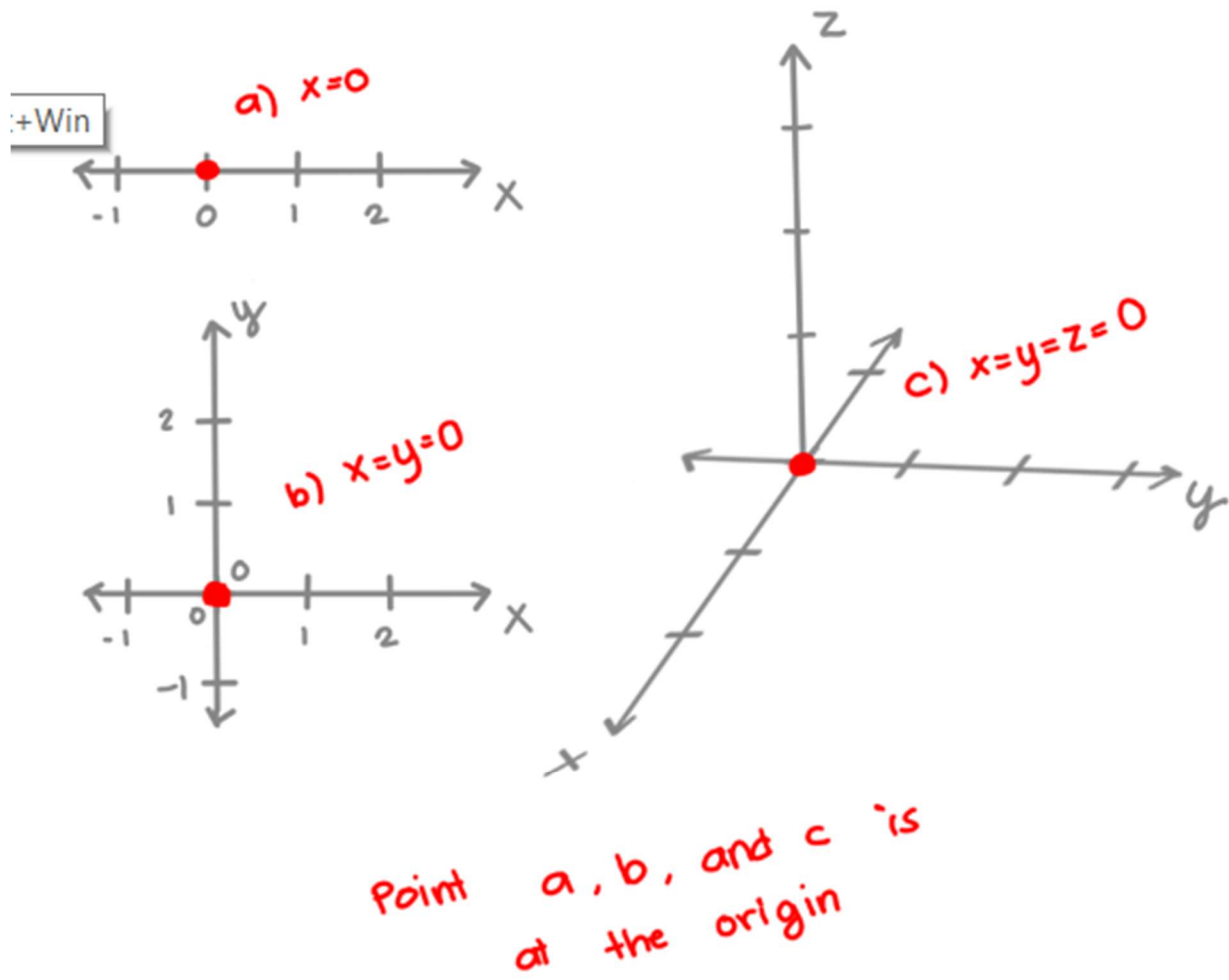
## DISCRETE STRUCTURES – Assignment #2

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2-BSCS-2

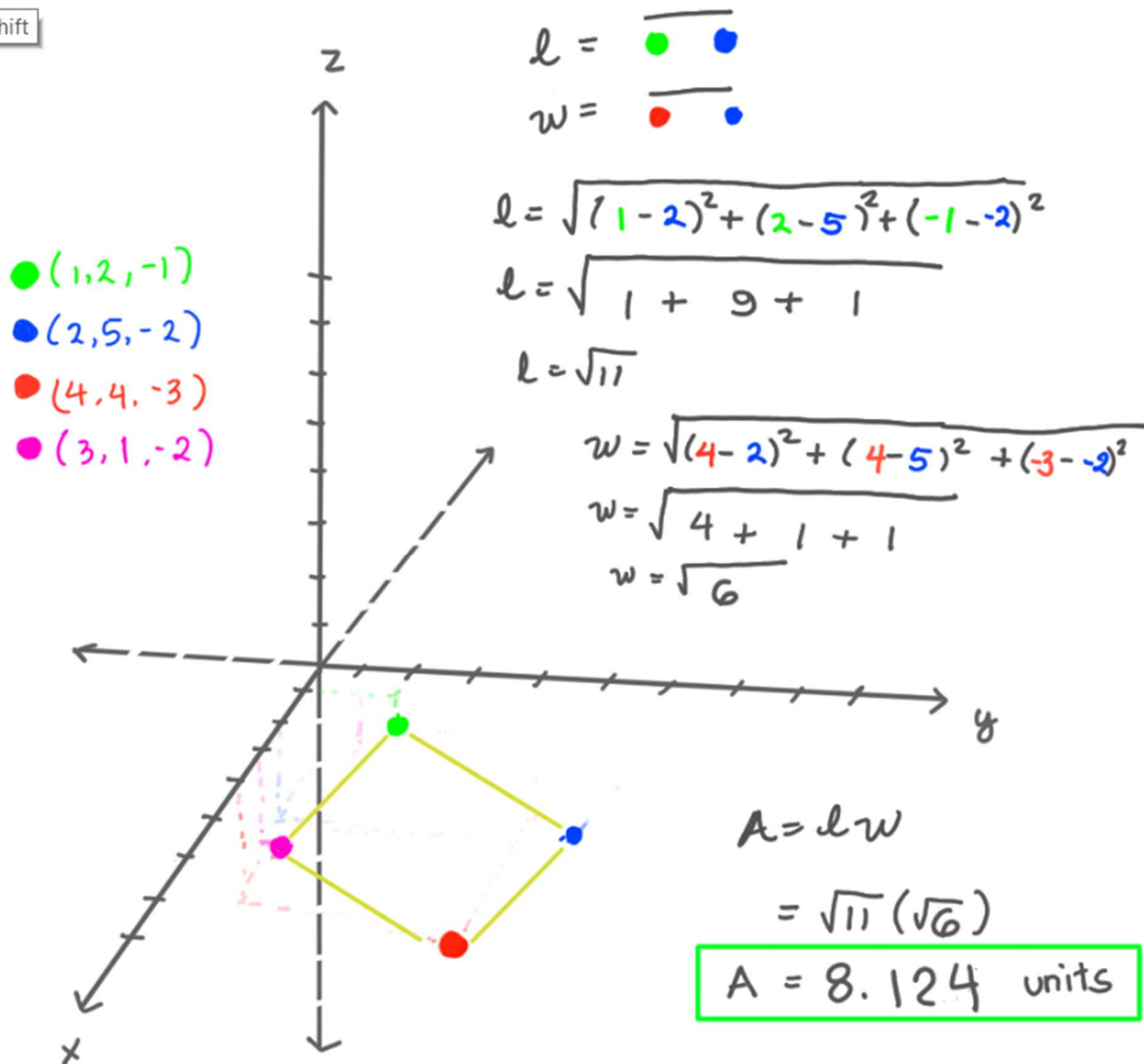
1. Where is the point and illustrate if:

- a)  $x = 0$ ,      b)  $x = y = 0$ ,      c)  $x = y = z = 0$



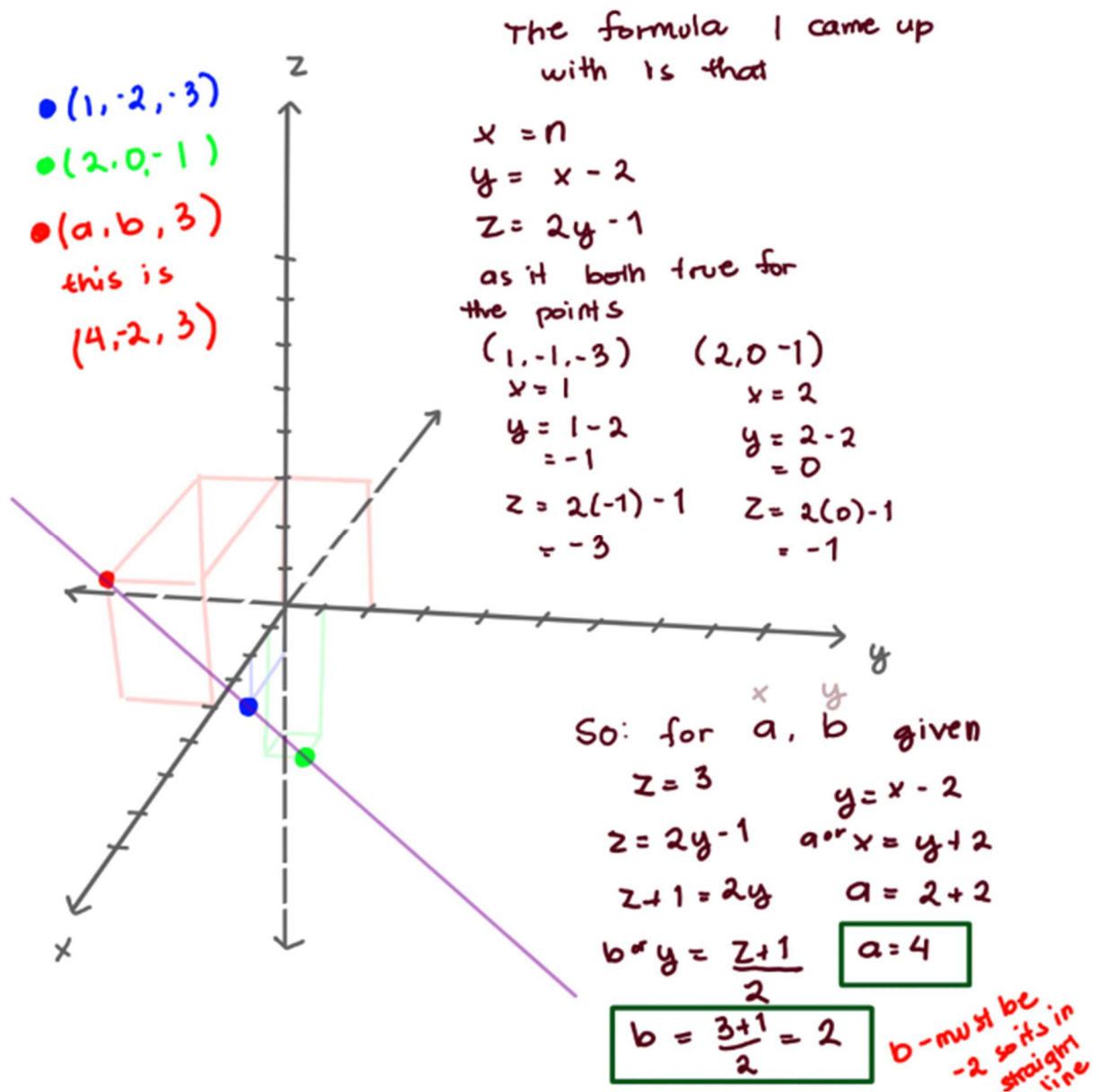
2. Prove that the points (1,2,-1) (2,5,-2)(4,4,-3) and (3,1,-2) are the vertices of a rectangle and find its area.

Shift



My answer is : the area of the rectangle is **8.124 units**

3. Determine  $a$  and  $b$  so that the points  $(1, -1, -3)$ ,  $(2, 0, -1)$ , and  $(a, b, 3)$  lie on a straight line.



My final answer is:  $a = 4, b = -2$