Archaeologists have started a dig for remains of statues of the Olmay tribe, believed to have inhabited the area. They have laid out a grid 20 yards by 20 yards in the area where they found two statues belonging to the tribe. The Olmay always set out their statues in the shape of a square. Within the grid they laid out, the two statues they found were at points A (8,2) and B (2,10). After much searching, a third statue was found outside their grid. The archaeologists extended their grid to include the third statue. The third statue was found at the point C (-6,4).

1. Use math and words to justify if it is reasonable for the archaeologists to assume that the three statues they found are all part of the same square.
2. Given your answer from (a), where should the archaeologists start the search for the next statue? Support your answer with mathematics.