**Homework Problems #'s 11-15**

The points $(3, 3)$ and $(2, 6)$ are two vertices of a right triangle. Use this information for Exercises 11–13.

11. **Multiple Choice** Which point could be the third vertex of the right triangle?

    **A.** $(3, 2)$         **B.** $(-1, 5)$         **C.** $(7, 4)$         **D.** $(0, 3)$

12. Give the coordinates of at least two other points that could be the third vertex.

13. How many right triangles with vertices $(3, 3)$ and $(2, 6)$ can you draw? Explain.

14. Can you connect the following points to form a parallelogram? Explain.

    $(1, 1)$      $(2, -2)$      $(4, 2)$      $(3, 5)$

15. Find the areas of triangles *AST, BST, CST,* and *DST.* How do the areas compare? Why do you think this is true?