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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_  **Lesson 52 Parallelograms** Geometry |

**Opening Discussion**

When asked to complete a coordinate geometry proof to prove that a figure

is a parallelogram in which ways can you do this?

**Opening Exercise**

Given: Quadrilateral ABCD has vertices A , B , C  and D 

Prove: ABCD is a parallelogram

Plan:

**Practice Exercises**

1. In ,  is exceeds twice the 2. In ,  and

measure of  by 15. Find . . Find .

1. In ,  and 4. In , diagonal , 

. Find the length of . and . Find *x*.



5. In the diagram of , the coordinates of vertices

O, R and T are ,  and  respectively.

What are the coordinates of vertex S?