



The shape on the grid above is a square. Use that information to answer the questions below.

1.) What is the equation of each line?

Line a	Line b	Line c	Line d

2.) What do you notice about the equations of these four lines? Knowing the shape is a square, what claim can you now support with evidence. (Hint: Think about what you know about parallel lines).

3.) Find the area of the square. You are NOT allowed to use any methods you have learned outside of class to find the area (ie: Pythagorean/distance formula, Pick's Theorem)

4.) Knowing this shape is the square, what is the length of one side? You MAY NOT use a calculator to find this.