

Problem 3.1**Part A**1. Rectangles with area 24 in^2

Length(in.)	1	2	3	4	5	6	7	8
Width(in.)								

2. Plot your data from the table above on the grid below. Then, draw a line or curve that seems to model the pattern in the data.

Rectangles with area 24 in^2

3. As the length increases the width _____ . This relationship is/is not linear.
4. Write an equation that shows how the width y depends on the length x for rectangles with an area of 24 square inches.

Part B

Now consider rectangles with an area of 32 square inches.

1. Write an equation for the relationship between the length x and the width y .

2. Graph your equation. Show lengths from 1 to 15 inches.

Length(in)	1	2	4	8
Width(in)				

Part C

1. Compare your equations. How are they similar?

How are they different?

Part D

Compare your graphs. How are they similar?

How are they different?