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Lab 3

1. Want :Slope distance between points and equation of the line

How: Distance formula, point slope formula

Need: x1,y1,x2,y2,

-1

Input x1: 3

Input y1: 4

Input x2: 2

Input x2: 5

The slope is -1.0

The distance between the points is 1.4142135623730951

The equation of the line is y = -1.0 x 7.0

-2

Input x1: 7

Input y1: 2

Input x2: 8

Input x2: 2

The slope is 0.0

The distance between the points is 1.0

The equation of the line is y = 0.0 x 2.0

-3

Input x1: 4

Input y1: 7

Input x2: 11

Input x2: 98

The slope is 13.0

The distance between the points is 91.26883367283708

The equation of the line is y = 13.0 x -45.0

1. Want :Shaded area of square

How: area of square – area of circle

Need: one side length

-1

Input side length S: 9

Shaded Area = 17.382748764806692

-2

Input side length S: 54

Shaded Area = 625.778955533041

-3

Input side length S: 98

Shaded Area = 2061.0360387309065