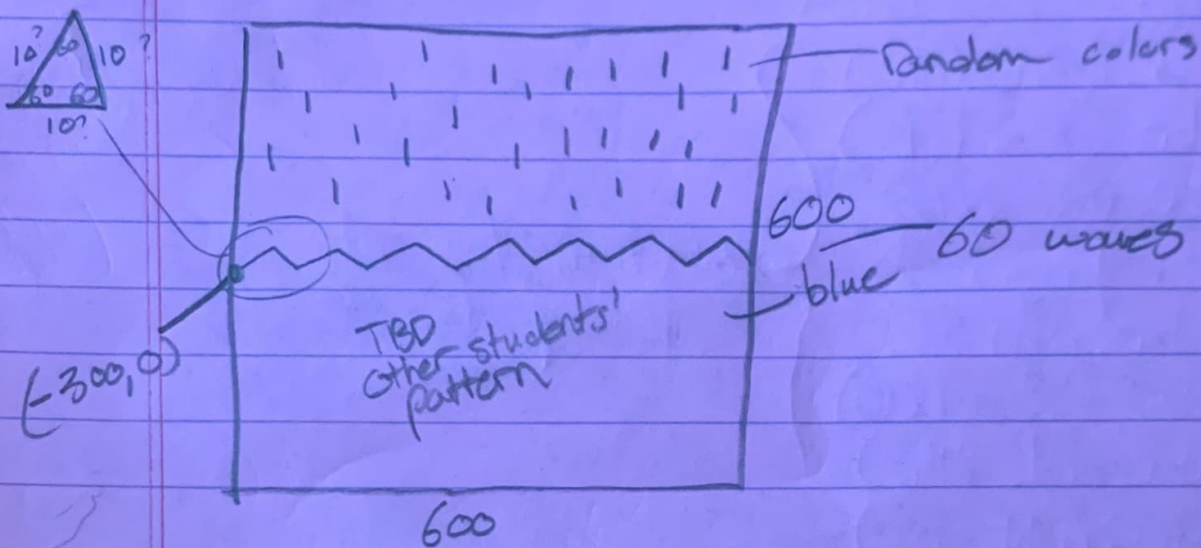


Rain Reef (PC04) Pseudocode



Setup

Import turtle and random libs

Create screen (600 x 600)

Set background to light shy blue

↳ (135, 206, 235)?

Water ← waterColor = (0, 105, 148)?

water = turtle()

water.up()

water.goto(-300, 0)

water.pencolor(waterColor)

water.fillcolor(waterColor)

water.down()

water.goto(300, 0)

water.goto(300, -300)

water.goto(-300, -300)

water.goto(-300, 0)

water.end_fill()

water.begin_fill()

water.right (30)

for wave in range (60)

~~water.forward (10)~~

water.begin_fill()

water.forward (10)

water.right (60)

water.forward (10)

water.right (60)

water.forward (10)

water.end_fill()

water.right (180)

water.forward (10)

water.left (60)

} Could turn this into
a for loop too.

water.up()

INSERT OTHER STUDENTS' PATTERN (for coral)

↳ but modify so it is below $y = 0$.

↳ If not possible, change order and print
sky over any "coral" above $y = 0$ and then
do waves, (but still do ocean base first)

↳ also, modify to be random colors?

DO RAINBOW RAIN 1st

Rainbow Rain

rain = turtle()

rain.up()

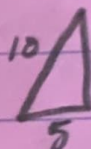
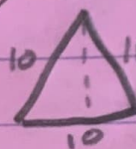
rain.pensize(1)
for drop in range(300)

so facing
down

rain.right(90)

more?

~~Need 5 pixel
buffer
water.~~



$$5^2 + x^2 = 10^2$$

25

rain.goto()

rain.goto(random.randint(-300, 300), random.randint(-300, 300))

rain.pencolor(random.randint(0, 255), " ", " ")

rain.down()

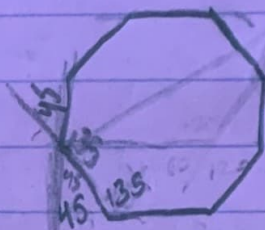
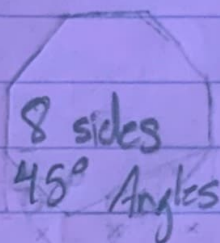
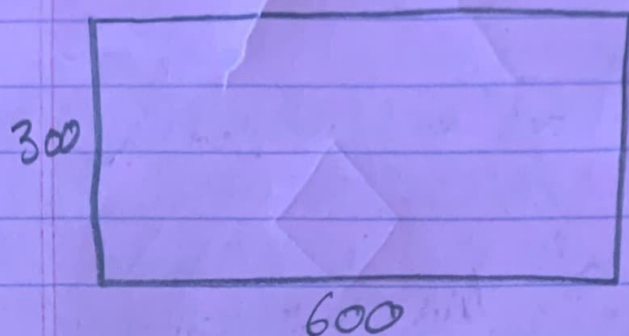
rain.forward(5)

rain.up()

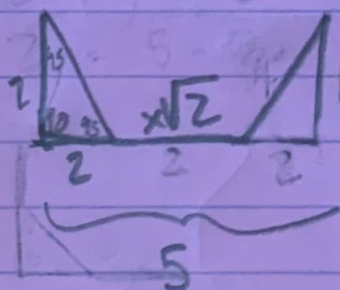
turtle.done()

Move to
random
locations
and draw
random
color
raindrop
(line)

Maddy laurenriverasergio Code



$$2 + \sqrt{2}$$



$$x\sqrt{2} + 2x = 5$$

$$2x^2 = 16$$

$$9 + 9 = c^2$$

$$\sqrt{18}$$

$$2x^2 = y^2$$

$$49 + 49 = 98$$

$$64 + 64 =$$

$$2x + y = 4$$

$$(4 - 2x)(4 - 2x)$$

$$16 - 8x - 8x - 4x^2$$

$$2x^2 = -4x^2 - 16x + 16$$

$$6x^2 + 16x - 16 = 0$$

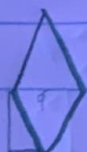
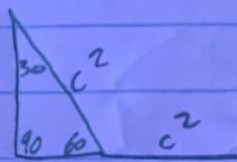
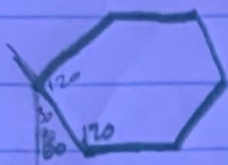
$$3x^2 + 8x - 8 = 0$$

$$(3x)(x + 2)$$

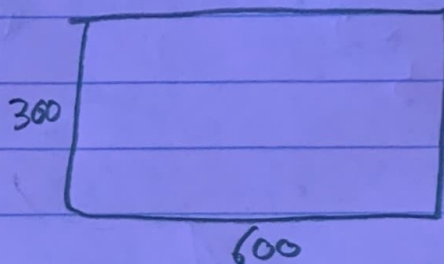
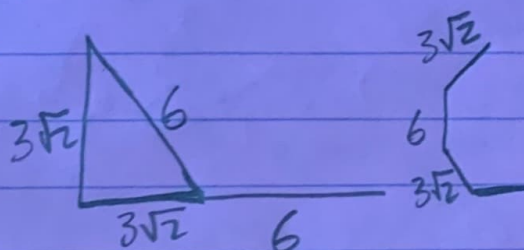
$$y = 4 - 2x$$

$$2x^2 = (4 - 2x)^2$$

$$2x^2$$

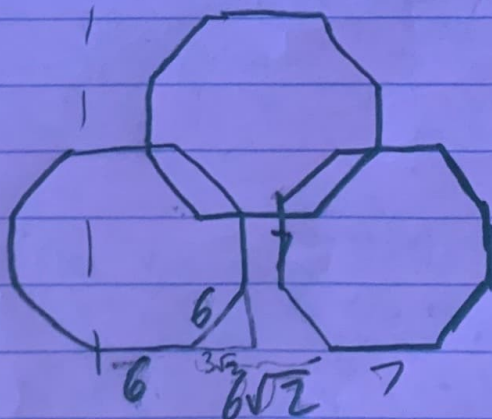


1 4 9 16

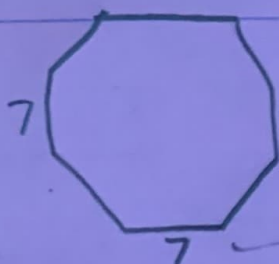


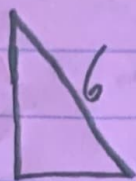
$$\frac{300}{6+6\sqrt{2}} = 20.71$$

$$\frac{600}{6+6\sqrt{2}} = 41.42$$



$$7\sqrt{2} = 9.8$$





4

$$36 = 2x^2$$

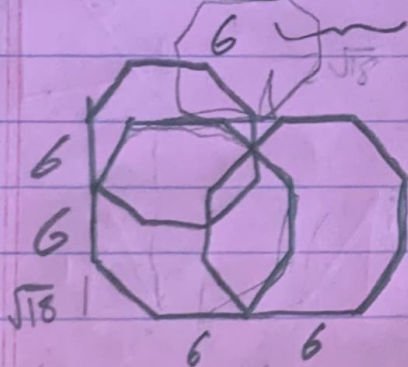
$$x = \sqrt{18}$$

$$16 = 2x^2$$

$$8 = x^2$$



$2\sqrt{18}$



for i in

for i in range(20)

Yellow line on
Brown line on
bottom

for i in range(100)

for i in range(80)

set color random

forward 6

angle 45

8 times

forward 6



pen(down)

pen(up)
back(600)
left(90)
forward(10)
right(90)