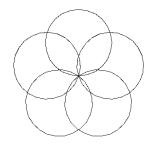
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15-112 Spring 2021 Quiz 02 15 minutes.

1. Reasoning over Code [3 pts] Consider the following function:

```
def drawFlower(x, y):
    for i in range(x):
        circle(75)
        right(y)
```

Find values for x and y that cause this function to produce the following picture:



Note: Just to clarify, your answer should be one value for x and one value for y.

2. Free Response – Draw Square [4 pts] Write the function drawSquare(n) using the turtle library to draw a square with sides of length n. When the function finishes drawing the square, the turtle should end at the same location, facing the same direction, that it started at.

3.	Free Response – Repli	cate the Picture	e [10 p	ts] Write	the function	<pre>drawThing()</pre>	using the
tur	tle library to produce the i	mage given below.	Your so	olution sho	ould be as succ	inct as possibl	e in terms
of	lines of code. Any correct s	solution with more	than e	ight lines of	of code will get	only 50% of	the points
for	this question.						

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Additional Information:

- There are ten squares.
- The largest square in the image has 100 unit sides, the next largest square has 90 unit sides, and each subsequent square decreases in size by 10 units per side.
- The distance between squares is 20 units.
- You can (and should) call your drawSquare function from the previous problem. You do not need to rewrite it. Even if your solution to drawSquare is incorrect, for the purposes of this problem you may assume that it is correct.

4. Code Tracing [3 pts] Draw what the following program draws. Assume that the turtle starts out facing to the right.

```
def ctHelper():
    for i in range(3):
        forward(50)
        right(120)
def ct1():
    for i in range(4):
        ctHelper()
        forward(50)
    penup()
    left(90)
    forward(100)
    left(90)
    forward(30)
    pendown()
    circle(10)
    penup()
    forward(140)
    pendown()
    circle(10)
ct1()
```