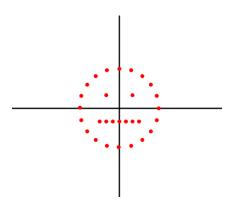
Name:

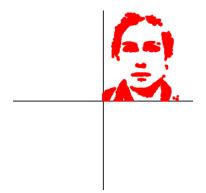
CECS 229 - Lab 2/HW4

1. Given $S = \{2+2j,3+2j,1.75+1j,2+1j,2.25+1j,2.5+1j,2.75+1j,3+1j,3.25+1j\}$ and $T = \{(e^{**}(2^*pi^*1j/20))^{**}x \text{ for } x \text{ in range}(20)\}$, use the function def transform(L,a,b): return $\{a^*x+b \text{ for } x \text{ in } L\}$ to produce the following image.



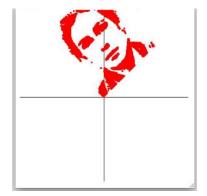
2. Complete task 1.4.10

Expected result:



3. Complete task 1.4.19

Expected result:



Name:

Use the First Rule of Exponentiation (Section 1.4.9) to express the product of two exponentials as a single exponential.

For example, $e(\pi/4)ie(\pi/4)i = e(\pi/2)i$.

$$a. e^{1i}e^{2i}$$

b.
$$e^{(\pi/4)i} e^{(2\pi/3)i}$$

c.
$$e^{-(\pi/4)i} e^{(2\pi/3)i}$$