Computational Physics – HW #2

- 1. Plot the following three points in the complex plane:
 - (a) 2 2i
 - (b) $2(\cos(\pi/6) + i\sin(\pi/6)$
 - (c) $3e^{i\pi/2}$
- 2. Put

$$\frac{3+i}{2+i}\tag{1}$$

into x + iy form and $re^{i\theta}$ form.

3. Find all values of x and y (both real) that satisfy

$$(x+iy)^2 = (x-iy)^2.$$
 (2)