$$2^{2} = -i \qquad |z^{2}| = |z|^{2} = \sqrt{(-1)^{2}} = 1$$

$$2 = a + bi$$

$$a^{2} - b^{2} + \lambda abi = -i$$

$$1(a^{2}-b^{2}=0)$$
 $2\{2ab=-1\}$

$$\frac{1(a^{2}-b^{2}=0)}{2(2ab)^{2}-1} = 0$$

$$\frac{1}{2}(a^{2}+b^{2}=1)$$

$$\frac{1}{2}(a^{2}+b^{2}=1)$$

$$\frac{1}{2}(a^{2}+b^{2}=1)$$

$$\frac{1}{2}(a^{2}+b^{2}=1)$$

$$\frac{1}{2}(a^{2}+b^{2}=1)$$

$$\frac{1}{2}(a^{2}+b^{2}=1)$$

$$\frac{b}{2^{2}} = 1 + i \sqrt{3}$$
 $\frac{2}{3} = a + bi$

b)
$$2^{2} = 1 + i\sqrt{3}$$
 $|2^{2}| = |2|^{2} = \sqrt{1+3} = 2$
 $2 = a+bi$

$$a^2 - b^2 + 2abi = 1 + i \sqrt{3}$$

$$9(a^{2}-b^{2}=1)$$
 $2(2ab)=\sqrt{3}$
 $1(a^{2}+b^{2}=2)$

$$\frac{9(a^{2}-b^{2}=1)}{2(hab=\sqrt{3})} = \frac{1}{3}$$

$$\frac{1}{a^{2}+b^{2}} = 2$$

$$\frac{1+3}{2} = \frac{1}{3}$$

$$\frac{1}{a^{2}+b^{2}} = 2$$

$$\frac{1+3}{2} = \frac{1}{3}$$

$$\frac{1}{a^{2}+b^{2}} = \frac{1}{2}$$

$$\frac{2}{2^{2}} = 3 + 4i$$

$$2 = a + bi$$

$$|z^{2}| = |z|^{2} = \sqrt{9 + 16} = \sqrt{25} = 5$$

$$a^2 - b^2 + \lambda abi = 3 + 7i$$