$$2c: \left(1 + \frac{3}{1+i}\right)^2$$

$$= \left(1 + \frac{(3-3i)}{2}\right)^{2}$$

$$= \frac{\left(5-3i\right)^{2}}{4}$$

7: 
$$N_0 - k_e(zw) = \frac{zw+\overline{z}w}{z}$$

$$l_e(z) l_e(w) = \frac{zw+\overline{z}}{z} \left(\frac{w+\overline{w}}{z}\right)$$

$$= \frac{zw+\overline{z}w+\overline{z}w+\overline{z}\overline{w}}{z} + \frac{zw+\overline{z}\overline{w}}{z},$$

$a + \overline{az}$	De[12+6w]2 (02+6w)+(12+6w)
8. le(az): $\frac{az+\overline{az}}{z}$ $=\frac{az+a\overline{z}}{z}$	= (Q 2 + 6 w ) + (\overline{az} + 6 w)
$-a\left(\frac{2+\widetilde{2}}{2}\right)=ale(7)$	$\frac{az+\overline{az}}{z} + \frac{6w+\overline{bw}}{z}$ $= \frac{az+\overline{az}}{z} + \frac{6w+\overline{bw}}{z}$
$\frac{a - \overline{a}}{1 - \overline{a}}$	= 2 -a le(z) +6 le(w)
$\widehat{\downarrow}_{m(az)} = \frac{az - \overline{az}}{2i}$ $= \frac{az - \overline{az}}{2i}$	
$= a\left(\frac{z-\overline{z}}{z_i}\right) = a Im(z)$	

$$\frac{\left(\frac{3+8}{1}\right)^4}{3!} = \frac{\left(3-8\right)^4}{\left(\frac{1-i}{1}\right)^{10}}$$

7: 
$$\left| \frac{i(2t3i)(5-2i)}{-2-i} \right| = \sqrt{\frac{377}{5}}$$

$$= \left( w^{-1} \right) \left( \left( + w + \cdots + w^{n-1} \right) \right)$$

$$= \frac{\left| (a-c)+(b-d)i \right|}{\left| (1-ac+bd)+(bc-ad)i \right|}$$

$$\frac{\sqrt{(\alpha-c)^{2}+(\beta-d)^{2}}}{\sqrt{(\alpha c+bd-1)^{2}+(\alpha d-bc)^{2}}}$$

$$= \frac{\alpha^{2}-2\alpha c+(c^{2}+b^{2}-2bd+d^{2})}{(\alpha c-bd)^{2}-2(\alpha c+bd)+(c+ba)^{2}}$$

$$= \frac{c^{2}+d^{2}+1-2(\alpha c+bd)}{c^{2}+d^{2}+1-2(\alpha c+bd)}$$

=

16. I don't know how to do this problem.