

$z = x + yi$   
 $z = |z|(\cos \varphi + i \sin \varphi)$   
 $z = |z|e^{i\varphi}$

$z_1 + z_2 = x_1 + x_2 + (y_1 + y_2)i$   
 $z_1 - z_2 = x_1 - x_2 + (y_1 - y_2)i$   
 $z_1 z_2 = |z_1||z_2|e^{i(\varphi_1 + \varphi_2)}$   
 $\frac{z_1}{z_2} = \frac{|z_1|}{|z_2|}e^{i(\varphi_1 - \varphi_2)}$

$z_1 + z_2 = x_1 + x_2 + (y_1 + y_2)i$

$z_1 z_2 = |z_1||z_2|e^{i(\varphi_1 + \varphi_2)}$

$|z| = 3$

$z_1 - z_2 = x_1 - x_2 + (y_1 - y_2)i$

$\frac{z_1}{z_2} = \frac{|z_1|}{|z_2|}e^{i(\varphi_1 - \varphi_2)}$

$z + \bar{z} = 2 \operatorname{Re}(z)$   
 $z_1 \bar{z}_2 + \bar{z}_1 z_2 = 2 \operatorname{Re}(z_1 \bar{z}_2)$

$z - \bar{z} = 2 \operatorname{Im}(z)$   
 $z_1 \bar{z}_2 - \bar{z}_1 z_2 = 2 \operatorname{Im}(z_1 \bar{z}_2)$

$\overline{z_1 + z_2} = \bar{z}_1 + \bar{z}_2$ $\overline{z_1 - z_2} = \bar{z}_1 - \bar{z}_2$ $\overline{z_1 \cdot z_2} = \bar{z}_1 \cdot \bar{z}_2$ $\overline{\left(\frac{z_1}{z_2}\right)} = \frac{\bar{z}_1}{\bar{z}_2}$ $\overline{\bar{z}} = z$	$ z_1 \cdot z_2  =  z_1  \cdot  z_2 $ $\left \frac{z_1}{z_2}\right  = \frac{ z_1 }{ z_2 }$ $ z ^n =  z^n $ $ z  =  \bar{z}  =  -z  =  iz $	$\left  z_1  -  z_2 \right  \leq  z_1 + z_2 $ $\left  z_1  -  z_2 \right  \leq  z_1 - z_2 $ $ z_1 + z_2  \leq  z_1  +  z_2 $ $ z_1 - z_2  \leq  z_1  +  z_2 $
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