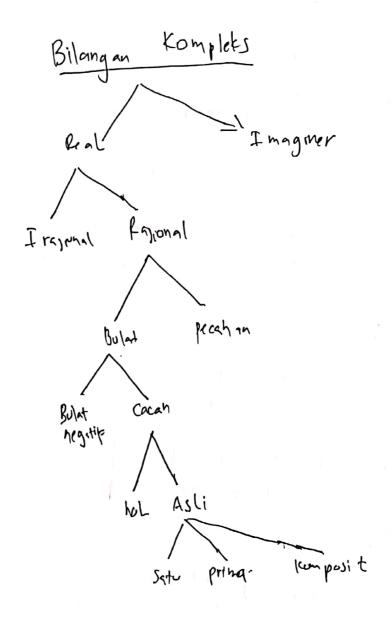
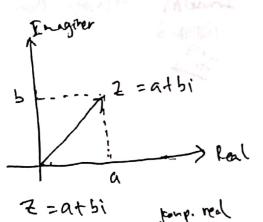
Complex Variables

and Applications





Operaji Bilangan templeks

April ditti)

$$Z_1 = a + bi$$
 $Z_2 = c + di$ 
 $Z_2 = c + di$ 

April ditti)

 $Z_2 = c + di$ 

April ditti

Ap

(1) Penjunbhan / pengurangan
$$Z_1 + Z_2 = (a+bi) + (c+di) \\
= (a+c) + (b+d)i$$

$$Z_1 - Z_2 = (a+bi) - (c+di) \\
= (a-c) + (b-d)i$$
Saat dipandang  $Z_1 + Z_2 = (a,b) + (c,d) \\
= (a+c,b+d)$ 

$$Z_1 - Z_2 = (a+b) - (c+d) \\
= (a-c,b-d)$$

$$2_1 = 3+2i$$
  $2_1 + 2_2 = 8+9i$   
 $2_2 = 3+7i$   $2_1 - 2_2 = -2-5i$ 

14.

## Immel AS/1811141008

AHA Manu

$$\frac{\frac{2}{2}}{\frac{1}{2}} = \frac{94bi}{c+di} \times \frac{c-di}{c-di}$$

$$= \frac{9c - (ad)i + (bc)i + bd}{c^2 + d^2}$$

$$= \frac{(ac+bd)}{c^2 + d^2} + \frac{(bc-ad)i}{c^2 + d^2}$$

$$= \frac{ac+bd}{c^2 + d^2} + \frac{bc-dd}{c^2 + d^2}$$

Konjugat / Selawan

konjugat bilanga (complet) Z = a+bi difulis Z = a-bi

2 = a + bi dil au

