Kompletze fell

$$Z = a + ibr$$
, $a_1b \in \mathbb{R}$, $i^2 = -1$

Konjugasjan: $Z = a + ibr$
 $\overline{Z} = a - ibr$ (\overline{Z} thanjugast)

Requireden for hanjugastan:

(i) $\overline{Z + W} = \overline{Z} + \overline{W}$

(ii) $\overline{Z - W} = \overline{Z} - \overline{W}$

(iii) $\overline{Z} = \overline{Z} = \overline{W}$

(iv) $\overline{Z} = \overline{Z} = \overline{W}$

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Beis: (iii) $Z = a + ibr$, $W = c + id$
 $\overline{Z}W = \overline{(a + ibr)(c \times i \cdot A)} = \overline{ac + iad + ibr(+i^2brd)}$
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diquinger:
$$4i_{2}-7=22-3i$$

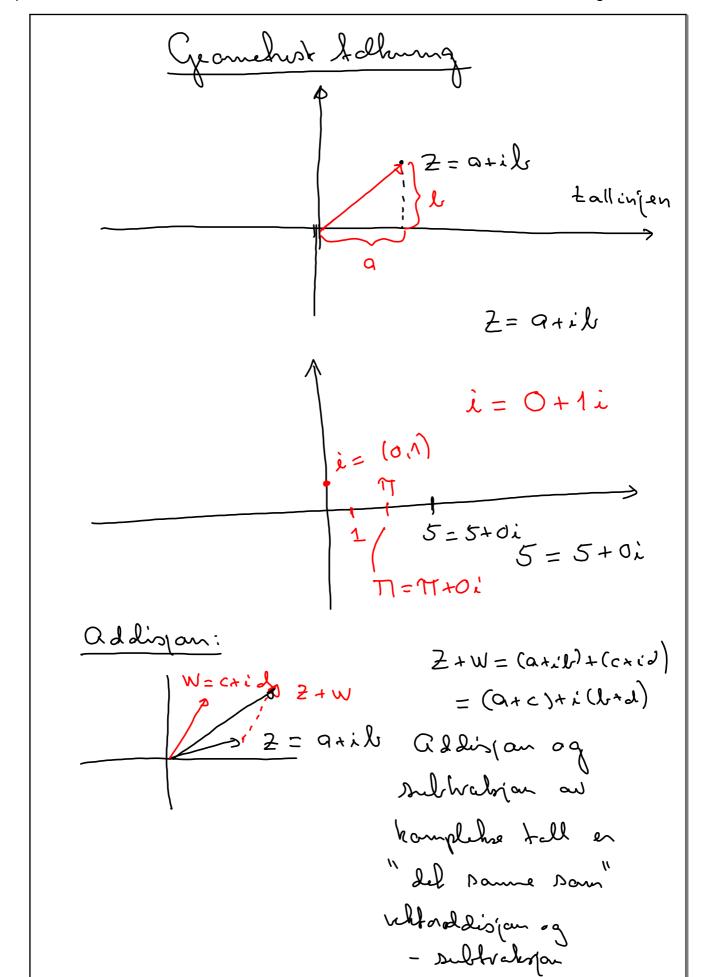
$$-2+4i_{2}=7-3i$$

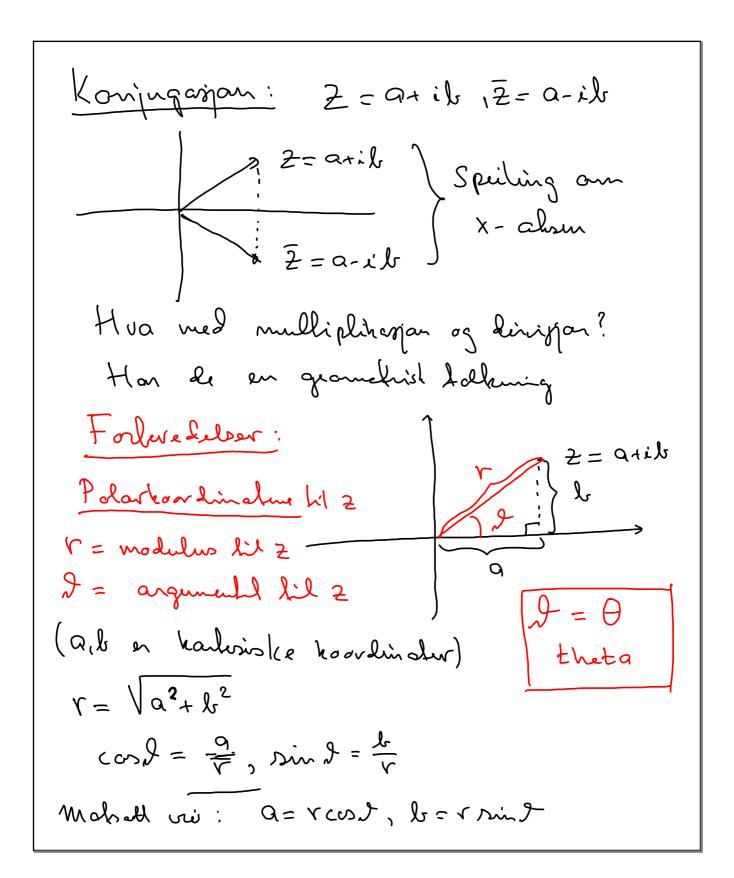
$$2(-2+4i)=7-3i : (-2+4i)$$

$$2=\frac{7-3i}{-2+4i}=\frac{(7-3i)}{(-2+4i)}\frac{(-2-4i)}{(-2+4i)}$$

$$=\frac{-14-28i+6i+12i^{2}}{(-2)^{2}-4i^{2}}=\frac{-26-22i}{20}$$

$$=\frac{-13-11i}{10}=-\frac{13}{10}-\frac{11}{10}i$$





Z = a + ib = r cool + i round pà polarform

Minner on:

Cos(N+V) = cosu cosu - sinu sinu Din (4+v) = cosu min + minu cosu

 $Z_1 = r_1 \cos l_1 + i r_1 \sin l_1$ Z2 = V2 cost2 + iv2 sind2

Z, Z= (r, cos), +ir, sin) (r, cos), +ir, sin) (

= 1, cost, 12 cost, + i 1, cost, 12 sind

+ iv, sind, v2 cost2 (+ i2) 1, sind, v2 sind2

= 1, 1/2 (cost, cost2 - mush min2)

+ i r, v2 (cost, sound + sind, cost2)

= 12 cos (2,+2) + i 2/2 sin (2,+2)-

Husk rosseltirsing By

et hamplebol hall med modulus VIV2 og argument It & D2 Regel: Vår i multipliserer to hampletse hall, multipliserer i modulusene og adderer viuhlene

