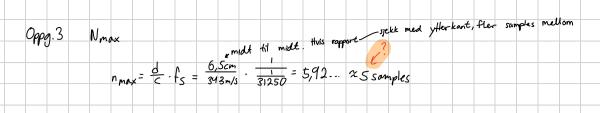
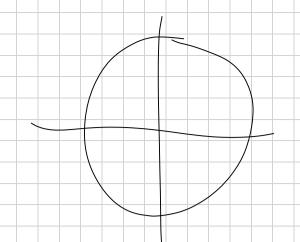
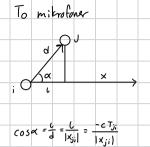


LAB 2 - Oppgane

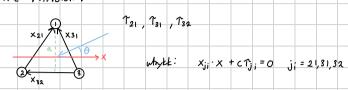


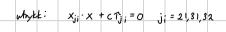


Innfallsvinkel Oppg.U



Tre mitrofoner





Loser ved least mean square, ved a også infrae en feil E

$$\varepsilon^2 = \sum_{j} (x_{ji} \cdot x + c \gamma_{ji})^2 = \sum_{j} (x_{ji} x + y_{ji} y + c \gamma_{ji})^2$$

Finne x og y slik at & 2 minimaes For a finne of ma man broke x og y

$$\theta = \arctan\left[\frac{y}{x}\right]$$

Videe e x og y gitt ar

$$x = \frac{CD - BE}{AD - B^2} \qquad y = \frac{-BC + AE}{AD - B^2}$$

Xsensor1 = [0,1] a

Xsensor2 = [-13/2, -0,5] a

Xsmsor3 = [V3/2, -0,5]a

 $\theta = \arctan\left[\sqrt{3} \cdot \frac{r_{31} + r_{21}}{r_{31} - r_{21} + 2r_{32}}\right] = \arctan\left[\sqrt{3} \cdot \frac{n_{31} + n_{21}}{n_{31} - n_{21} + 2n_{32}}\right]$

Gir oss kun vinkle i intervallet 0 € [-90, 90] 4 legge til IT : estimatet hvis xco, dus. hvis (-n2, + n3, +2n32) < 0

