

nov 12-14:10

B) Losn: MATLAIS.

Show the
$$y = 1.7604 \times -0.1988 \times^2$$

Bolingh
$$\rho$$
 of retar W, sammenting
 $S_s + S_1 \ln N = P$

$$\begin{cases} P_1 \\ \vdots \\ P_n \end{cases} = \begin{cases} 1 & \ln N_1 \\ \vdots \\ 1 & \ln N_n \end{cases} \begin{cases} S_s \\ S_1 \end{cases} \quad \text{for male data.}$$

Som
$$W = 100$$
, for vi $P = 17.92 + 19.39(100)$
Sa om $W = 100$, for vi $P = 17.92 + 19.39(100)$

6.6.18 Ana
$$\leq x_i = 0$$
.

Vis at X^TX of diagonal.

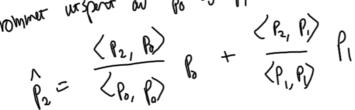
(i tildex lines tilpasmin)

 $y = (s_1 + l)_1 X$

I have tilled to so X at som

$$\begin{cases}
1 & X_1 \\
X_2 \\
X_3
\end{cases} = \begin{cases}
1 & X_1 \\
X_4
\end{cases} = \begin{cases}
1$$

$$\frac{6.79}{6.79} = \frac{(-3)}{(-3)} + \frac{(-1)}{(-3)} + \frac{(-1)}{(-3)$$



Regret we indreprodulture:

$$\langle P_2, P_0 \rangle = (-3)^2 + (-1)^2 + (1)^2 + (3)^2$$

 $= 20$
 $\langle P_0, P_0 \rangle = 1 + 1 + 1 + 1 = 4$
 $\langle P_0, P_0 \rangle = 0$

$$\langle g_0, p_0 \rangle = \frac{1 + 1 + 1 + 1 = 1}{4 + 1 + 1 = 1}$$

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$$S_{\infty}^{(2)} = 5_{0} + 0.0 = 5$$

B) Shall fine arroughold boris for
$$Spor{1,1,1^2}$$
.

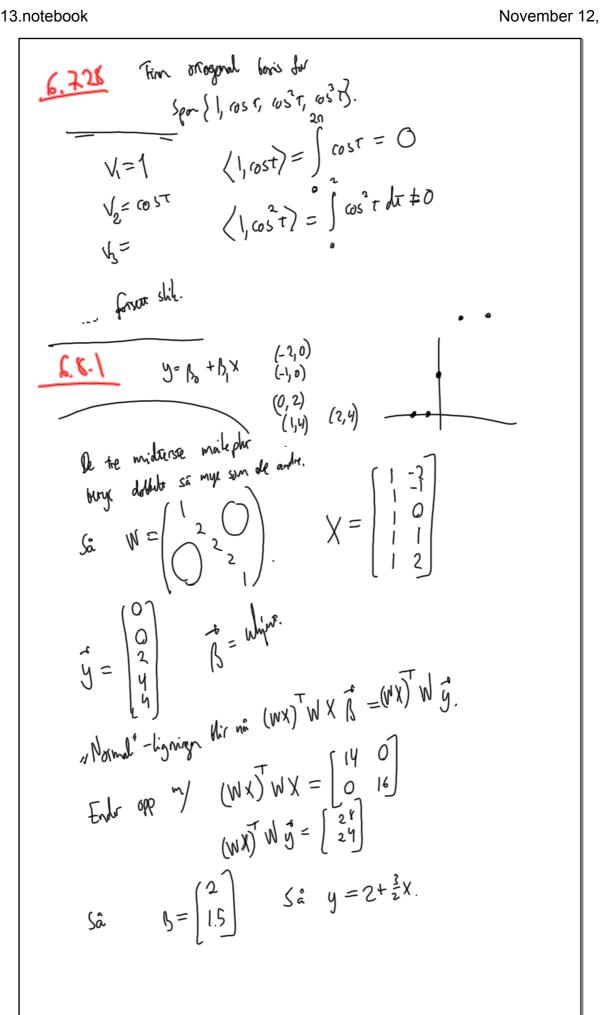
 $I(R_0,R_1) = -3 + -1 + 1 + 3 = 0$

Så lags $q = P_2 - \stackrel{?}{P}_2 = t^2 - 5$

Bulls på 4 , as få $q = \frac{t^2 - 5}{4}$.

Sjells at $I(R_0,R_1) = I(I(R_0,R_1) + I(R_0,R_1) + I$

12.11.2013.notebook November 12, 2013



6.8.6 Vil silvære f(t) som en sum au sin og cos.

Spoilin:
$$f(r) = \frac{a_0}{2} + a_1 \cos t + b_1 \sin^{2}t + a_2 \cos 2t + b_2 \sin 2t + a_3 \cos 3t + b_3 \sin^{3}t$$

t. - - -

VII stoire f(r)=T-1 som Fourier-reble, app til tredje beld. Fourist-transformasjon er linear, Si han regre ut forst F3(t) on F3(1)

es sû trebbe for.

$$\frac{\text{Topse for } f_1(r) = t}{\text{Konstandelder}} : \frac{a_0}{2} = \frac{1}{2} \frac{1}{\pi} \int_{0}^{\pi} 1 \cdot t \, dt = \frac{1}{2\pi} \left[\frac{1}{2} t^2 \right]_{0}^{2}$$

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For
$$1.70$$
:

 $2n \cdot u \cdot v'$
 $2k = \pi \int t \cos kt \, dt$

$$= \pi \left(\int \frac{t \sin k\tau}{k} \right)^{2n} + \left(\frac{\cos k\tau}{k^2} \right)^{2n}$$

$$= \frac{1}{\pi} \left(\int \frac{t \sin k\tau}{k} \right)^{2n} + \left(\frac{\cos k\tau}{k^2} \right)^{2n}$$

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$$= \frac{2}{\pi} \left(\int \frac{t \sin k\tau}{k} \right)^{2n} + \left(\int \frac{\cos k\tau}{k^2} \right)^{2n}$$

$$= \frac{1}{\pi} \left(\int \frac{t \sin k\tau}{k} \right)^{2n} + \left(\int \frac{\cos k\tau}{k} \right)^{2n} + \left(\int \frac{\cos k\tau}{k} \right)^{2n}$$

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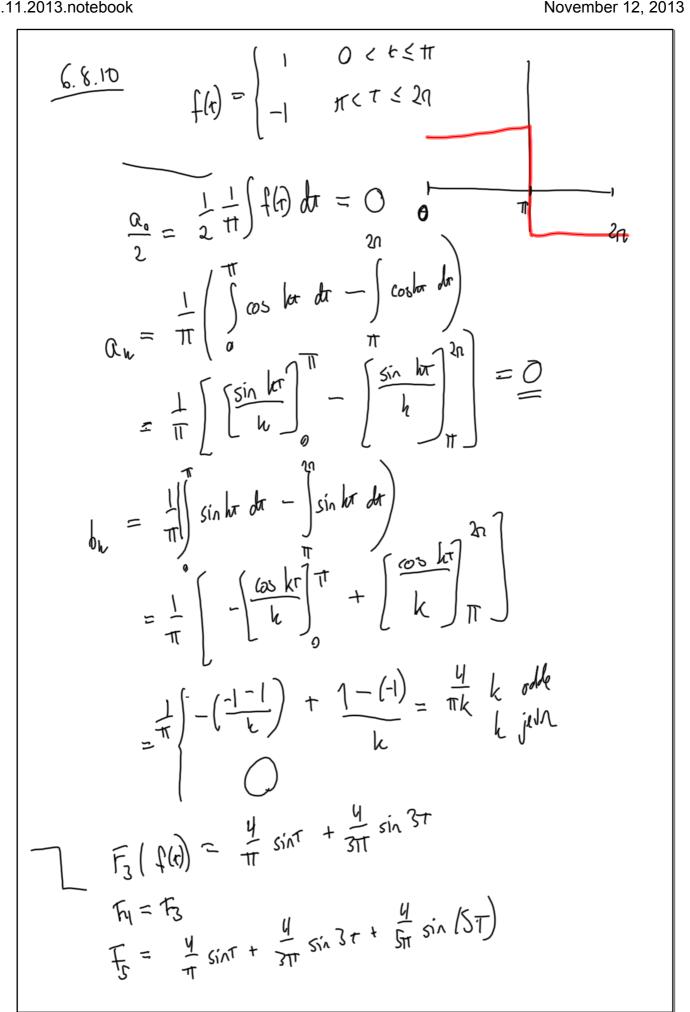
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