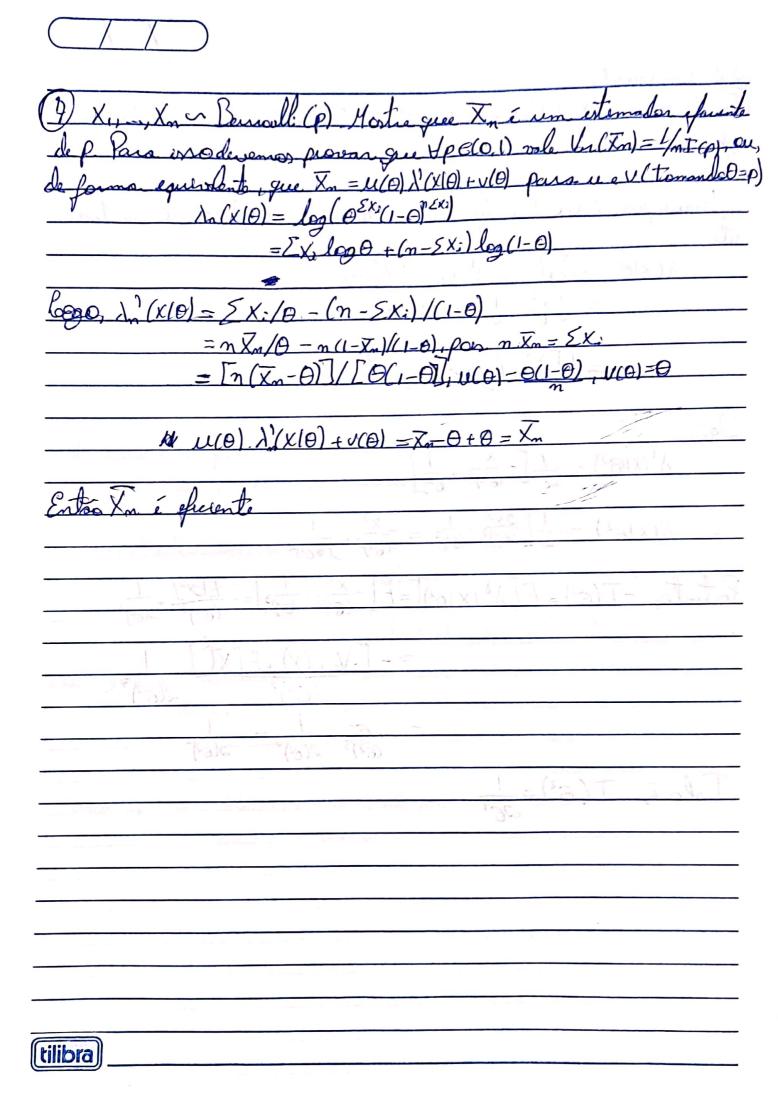
8.8-De Groot
8.8-De Groot (5) Suponha XV Normal (0,02), o'Assanheuda, Encentre a informação de Fisher em X.
informação de Essler am X.
Temos que, f(x/62) é dépudo em Pr. e V62> O, f(x/02)>0 em toda
A . 1/h
- 1(x162) = log ((Jorg) ap (- 2 /62))
$\frac{1}{100} \left(\frac{1}{100} \right) = \log \left(\frac{1}{100} \right) \exp \left(-\frac{1}{100} \right) = -\frac{1}{100} \left(\frac{1}{100} \right) = -\frac{1}$
- x 2 - x 2 - x 2 - 1 1/1 x - 1 m - 42/1 X x =
$= \frac{1}{2} \left[\frac{x^2}{6^2} + \log 2\pi + \log 6^2 \right]$
Dec to the second of the secon
$\frac{\sqrt{ \alpha }}{\sqrt{ \alpha }} = \frac{1}{2} \left[-\frac{x}{6^{2}} + \frac{1}{6^{2}} \right]$
$\frac{1}{2} \frac{(6^{3})^{2} + 6^{2}}{6^{2}}$
$\frac{1}{1/(x/6^2)} = -\frac{1}{2} \left[\frac{2x^2}{(6^2)^3} - \frac{1}{(6^2)^3} \right] = -\frac{x^2}{(6^2)^2} + \frac{1}{(6^2)^2}$
2. 0.
Partante, -I(62) = E[1* (x162)] = [-x2 + 161)3 = - E[x2] + 1
(6°) 2(6°) 2(6°) 2(6°) 3
$= - \left[V_{ax}(x) + E[X] \right]$
$(6^2)^3$ $2(6^2)^{3/2}$
$=$ $6^2 + 1$ $=$ 1
(6 ²) ³ 2(6 ²) ² 2(6 ²) ²
Isto $\tilde{\epsilon}$, $T(6^2) = \frac{1}{26^4}$
<u>~β</u>



(10) Suponha XI, Xm Marmal (0,6), com 6>0 desconhereda Enentre a limite inferen pera a designalade da informação inequelity for the sociance de algum estimador não vierado de logo. Sefa Tum estimador não vierado para logo, sola in
variance de algern externador não vierado de logo.
Sef Tum estimador não-verndo pura log 6, istorio F[t) = log 0 = m(0) e m'(0) = 6-1
Vou Colcular I(6) Para Esso: $\lambda(X \Theta) = \log \left(\sqrt{2\pi 6} \right) \exp\left(-\frac{1}{3} \frac{x^2}{6^2}\right)$ $= \frac{1}{3} \frac{x^2}{6^2} - \frac{1}{3} \left[\log 2\pi + \log 6^2 \right]$
$= \frac{1}{3} \frac{1}{62} - \frac{1}{3} \left[\frac{1}{62} \frac{1}{62} - \frac{1}{3} \right]$ $= \frac{1}{3} \frac{1}{62} - \frac{1}{3} \left[\frac{1}{62} \frac{1}{62} - \frac{1}{3} \right]$ $= \frac{1}{3} \frac{1}{62} - \frac{1}{3} \frac{1}{62} \frac{1}{62} = \frac{1}{3} \frac{1}{3} \frac{1}{62} = \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} = \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} = \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} = \frac{1}{3} \frac{1}{3} \frac{1}{3} = \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} = \frac{1}{$
$\frac{T(0) = -E(\lambda''(x(6)) = \frac{1}{2}E\left[\frac{6x^2}{6^2} - \frac{2}{2}\right] + \frac{6}{2}E[x^2] - \frac{2}{2}}{\frac{1}{2}}$
Isto i, Var (t) > m(6) = 1 mI(6) = 2n
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