Giggdos Stylianos +3352410. Lowework 5 1) Correct 9,3 2) Correct 1 3) Correct 3 4) Correct 2. 5) Correct 4 6) Correct 4. 7) Correct 2,4 8) Correct 2 9) Correct 3 20) Correct 2,4. 11) Correct 4 a) We have $\rho(x) = \theta^2 x e^{-\theta x} u(x)$ - Litelihood function is: L(0) = Tierp(xi) = Tier 9° xie-8xi - Log-Litelihood function is: log (L(d)) = Si=1 log (d2x; e-dxi) = Si=1 (2logd+logxi-dxi) => log ((3) = 2Nlog 3 + 5 = 1 logxi - 35 = 1 xi b) DHL = Si=1 7xi=9+2.9+9.7+9.4+2.6=11.9. Jul = 2.5 - 10 - 0.84 11.9 11.9 $7 = 2.3 = 9 \hat{\rho}(2.3) = (0.84)^2 \cdot 9.3 = 0.84 \cdot 9.3 = 0.2351$ $9 = 2.9 = 9 \hat{\rho}(2.9) = (0.84)^2 \cdot 9.9 \cdot 0^{-0.84 \cdot 9.9} = 0.1791$

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