Kimya Shirazi
5/4/2021
Exercise 3.1.2
In collaboration with Rini Gupta & Jacinta D.
PK = -0K + 5, 1=1 0 ; 0; + K
, K = 0 K + 21 J = 1 0 J 0 J + K
$1 + \sum_{i=1}^{2} 0_{i}^{2}$
+ 2;=, 9;
$P_0 = 1$ by definition $Q_1 = -0.2$
P ₁ = 0.08186
P2=-0.37783
P3=0 by definition
Pacalculation
9=2 K=1 -0, + S,=1 0, 02
2 22
$1 + \sum_{j=1}^{2} 0^{2}$
$\frac{\cdot 2 + (-\cdot 2)(\cdot 48)}{1 + 5(-\cdot 2)^{2} + (-\cdot 2)^{2}} = 0.104 = 0.08186$
1+[(2)2+(.48)2] 1.2704
7 -104
Pz calculation
2=2 K=2 -02+ Sj=1 0;0;+K
1.2704
$\frac{-0.48}{1.0000} = (-0.37783)$
1.2904
The state of the s