

f	f(e)	J=fo neilèllev	Exam 3 , 7 Section 001	sin at	Cosat	pat
)	F(s)	15	Sn+1	a S2ta2	Share	1 5-a
	10	(0,∞)	(0,00)	(0,0)	(ō, ∞)	(a, 10)

et ! have to

Directions: This exam has THREE (3) problems. Show your work for each problem and justify your answers unless otherwise directed. Solve the challenge parts at the end!

4/12/17

[50pts] 1. QR Decomposition and Least-Squares. |Similar to Ch. 3

Review #14,33|

(a) Find the QR decomposition A = QR, where Q has orthonormal columns and R is upper triangular and invertible.

of Find the QR dec of the QR dec of the QR dec of the property of the property of the QR dec of the property of the QR dec of the property of the property of the QR dec of the property of the QR dec of the property of the property of the QR dec of the property of the property of the QR dec of the property of the prop

$$\begin{bmatrix} 1 & 0 & 0 \\ 1 & 1 & 0 \\ 1 & 1 & 1 \end{bmatrix} = A$$