HW₆

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1,2.

3.

15 1) 1/10
A= 1 3 -1 b= 5
[215]
用 Poolittle 分部注
A=LU
(2) 1 U22 U23
L31 632 / U33/
15by=1 /1
5 (3)=2 . 4 = = = 1
$U_{21} + U_{22} = 3$ $\left(\frac{2}{5}, \frac{3}{14}, 1\right)$
2621+U23=1 /5/21
(31+ (32 V/4=1 U= 14 -7)
21,17 by U3 + U3=5
$\frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} = \frac{10}{1} = \frac{10}$
$Ux = y \qquad \frac{1}{5}y_1 + y_2 = 5 \qquad y_2 = 3$
$\left(\frac{2}{3}y_1 + \frac{3}{14}y_2 + y_3 = 20\right) \left(y_3 = \frac{245}{14}\right)$
$\frac{1}{5}$ $\frac{5}{4}$ $\frac{1}{4}$ $\frac{1}$
$\begin{cases} \frac{1}{7}x_1 - \frac{1}{7}x_3 = 3 & x = \left(\frac{1}{69}, \frac{21}{7}, \frac{217}{69}\right)^T \\ \frac{1}{7}x_3 = \frac{117}{7} & \frac{1}{69} & \frac{1}{7} & \frac{217}{69} & \frac{1}{7} \end{cases}$
7 A1 - 14