

b. Solve the following system, using matrices:

Solve the following using matrices:

- 15. 2x 3y = -4 5x + 7y = 116. 5x + 2y - z = -7 x - 2y + 2z = 03y + z = 17
- 17. -2x + 3y z = -1 x - 2y + z = 318. -2x + 3y - z = 42x - 3y + z = 1
- 2x + y 4z = 3-3x + 4y - z = -2 $\begin{bmatrix} 1 - 2 & 3 & 4 \\ 2 & 1 & -4 & 3 \\ -3 & 4 & -1 & -2 \end{bmatrix}$ $\begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 2 \end{bmatrix}$ $\begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 2 \end{bmatrix}$ 2z = 2 y = 3 x = 4

19. x + y - z = 0

3x - y + 3z = -2

x + 2y - 3z = -1

Homework 03-04

p 646 # 13, 14, 15, 16 3 det = 9-20 =-11 (13) 4 5 3 det = -b - 1b = -22 $x value = \frac{-22}{-11} = 2$ -2 4 3 4 det = 12 + 10 = 22 $y value = \frac{27}{-11} = -2$ 3 -2 5 Ч det = -, 28 8 14) - 4 $= \frac{1-23}{-23} =$ 1.6 .8 det = -1.28 <u>y value = -1.2 30</u> det = -1.2 -.4 1.6 7 -, 28 .2 2.2

-10 +24 14 +12 = 26 10 -12 -24 det = 29+ (-10+24+2) = 55 4 (15) 2 2 48 -15 -60 30 2 $d_{1} + = -83$)=-5 60-30-2 + -5 2 10 2 Ð -55 × Value = 2 55 -20 -60 12 4 -5 aet = 167 + -50-12+60 = 165 10 2 5 Ь 3 VALUE 2 -75 240 -30 -50 13Z 50+80+2 = 110 det=-22+ L 4 2 2 10 value = 110 2 7 55 20 -50 f

(5, 7, -2) $d_{1t} = -126 + (-48 + 100 - 8)$ - 100 48 8)= -82 (II) -2 2 2 Ş 8 -5 X 30 80 16 24 50 64 dit= -272+ (-24-50-64 =-410 2 2 2 ~2 2 16 H X Value = -410 -72 -5 4 0 -40 -7.40 334 20 8 dut = -184+ (-384-30-8 中 -2 22 =-656 2 16 Hb. y value = -656 = 8 Ч 8 2 -122 -36 24 -10 -320 37 det = -204 + (32+320+16)=164 4 2 -2 N 2 2 2 抗 8 8 5 2 Value = 164 20 -256 32 -82