

pg. 591) # 32-36, 37, 38, 50, 64, 66 \*#'s underlined are non-calculator\*

$$\textcircled{32} \begin{matrix} a=1 \\ b=6 \end{matrix}$$

$$\textcircled{33} AB = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \quad BA = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

$$\textcircled{34} AB = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \quad BA = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$\textcircled{35} \begin{bmatrix} -1 & 1.5 \\ 1 & -1 \end{bmatrix}$$

$\textcircled{36}$  inverse does not exist  
(det=0)

$\textcircled{37}$  inverse does not exist  
(det=0)

$$\textcircled{38} \begin{bmatrix} 1 & 1 & -3 \\ -.25 & -.5 & 1.75 \\ .25 & .5 & -.75 \end{bmatrix}$$

$$\textcircled{50} \text{ a) } \begin{bmatrix} 6 \\ 7 \\ 14 \end{bmatrix}$$

$$\text{ b) } [6 \ 7 \ 14] \cdot \begin{bmatrix} 5 & 22 & 14 & 7 & 17 \\ 7 & 20 & 10 & 9 & 21 \\ 6 & 27 & 8 & 5 & 13 \end{bmatrix}$$

$$\text{ c) } \begin{bmatrix} \$1600 \\ \$900 \\ \$500 \\ \$100 \\ \$1000 \end{bmatrix}$$

$\textcircled{64}$  c

$\textcircled{66}$  e