Introduction to MATLAB Notes

· ascii

>> char ('dex' + 1) Why?  
ans = [d = 
$$\times$$
]  $\rightarrow$  [e d y]  
edy 100 99 120 101 100 121

· other tricks

True because rand ranges from 0 to 1

ans = See modulo, mod() also. 7:2 = 3 + (rem=1)

>> ceil(-4.5) ceill) will round up to nearest integer

>> linspace (5, 15, 3)

5 10 15 5 . . . . (0 . . . . 15

· Vector and matrix operations Given the following:

$$\begin{bmatrix} 3 & -1 & 2 \\ 0 & 2 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 3 & -1 & 2 \\ 0 & 2 & 1 \end{bmatrix} \begin{bmatrix} 1 & 2 \\ -1 & 0 \end{bmatrix} \begin{bmatrix} 3 & 4 \\ 2 & 1 \end{bmatrix} \begin{bmatrix} 3 & 1 \end{bmatrix}$$

$$A$$

A-C ... not possible because the dimensions do not agree

A\*B ... not possible because the inner dimensions do not match (4 is  $2 \times 3$  while 8 is  $2 \times 2$ )

$$D * C ...$$
 [3 | ]  $\begin{bmatrix} 3 & 4 \\ 2 & 1 \end{bmatrix} = \begin{bmatrix} 3 \cdot 3 + 1 \cdot 2 = 11 \\ 3 \cdot 4 + 1 \cdot 1 = 13 \end{bmatrix}$