section name goes here

* term definition

<u>DEF</u>: term - and it's definition

* an example

<u>EX</u>: example heading

* a system of equations

$$\begin{cases} 2x + 4y = 2 \\ 2x + 6y = 3 \end{cases}$$

* working a multistep problem

$$\begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} \xrightarrow{R_1 + R_2} \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix} \Rightarrow \begin{cases} x = 1 \\ y = 2 \\ z = 3 \end{cases}$$

* a vector in R^3

$$v = \begin{bmatrix} x \\ y \\ z \end{bmatrix}$$

* a multi-step process

$$A \xrightarrow{do\ stuff} B \xrightarrow{more\ stuff} C$$

* an enumerated list

  1. this is the first item in an enumerated list

  2. this is the second item in an enumerated list

* manually broken lines

the first line
the second line
the third line

* some math

$$\int_a^b f(x)\,dx \int f(x)\,dx \frac{\pi}{2} \sqrt{\theta}\ n = 1, 2, 3 \ldots 4$$