PATH I - Lets demonstrate all 3 math modes.

## 1 - INLINE MODE

This is einstein's equation inline  $E = mc^2$ .

## 2 - NEWLINE CENTER

$$E = mc^2$$

## 3 - NEWLINE CENTER LABEL

$$E = mc^2 (1)$$

PART II -Lets demonstrate formating of multiple equations in math mode.

## 1 - BEGIN GATHERED (both equations centered)

$$a = b + c$$
$$d + e = f$$

2 - BEGIN ALIGNED (Both equation aligned on ampersand with tag)

$$a = b + c$$

$$d + e = f$$
(2)