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

$$E = mc^2 \tag{1}$$

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

1 - BEGIN GATHERED (both equations centered)

$$\begin{gathered} a = b + c \\ d + e = f \end{gathered}$$

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

$$\begin{aligned} a &= b + c \\ d + e &= f \end{aligned} \tag{2}$$