This is the first sentence with a soft return.

This is the second sentence after a hard return.

This is a new paragraph because of a blank line (hard return).

This is the famous equation: $E = mc^2$.

A rectangle has side lengths of (x+1) and (x+3). The equation for $A(x) = x^2 + 4x + 3$ gives the area of the rectangle.

written in display math

$$a^2 + b^2 = c^2$$

and

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

and

$$n(n+1)2$$