

$$f(x) = \text{sen}x$$

simpson 1/3 simple

*punto medio*

$$x_m = \frac{3 + 0}{2} = 1.5$$

$$\int_a^b f(x) dx = (b - a) \left[ \frac{f(a) + 4f(x_m) + f(b)}{6} \right]$$

$$\int_0^3 \text{sen}x dx = (3 - 0) \left[ \frac{f(0) + 4f(1.5) + f(3)}{6} \right]$$
$$= 2.065549$$