3 a

$$\int_a^b f(x)\,dx = T(h) - \frac{(b-a)h^2}{12} f''(\xi)$$

$$\int_0^h f(x) \sim C_0 f(0) + C_2 f(h)$$

$f(x) = x^2$

$$\int_0^h x^2\,dx = \frac{1}{3}x^3\Big|_0^h = \frac{1}{3}h^3$$

$$\frac{h}{3} = C_0 f(0) + C_2 f(h)$$

$$= 0 + x^2 C_2$$

SO THE TRAPEZOIDAL RULE HAS DEGREE OF PRECISION 1