3a

$$\int_a^b f(x)\,dx = S(x)$$

$f(x) = x^4$

$$\int_0^{2h} x^4\,dx = h\left(\tfrac{1}{3}f(x_0) + \tfrac{4}{3}(x_1) + \tfrac{1}{3}(x_2)\right)$$

$$\tfrac{1}{5}x^5\Big|_0^{2h} = h\left(0 + \tfrac{4}{3}h^4 + \tfrac{1}{3}(2h)^4\right)$$

$$\tfrac{1}{5}(2h)^5 = h\left(\tfrac{4}{3}h^4 + \tfrac{16}{3}h^4\right)$$

$$\tfrac{32}{5}h^5 \neq \tfrac{20}{3}h^5$$

SO, SIMPSON'S RULE HAS DEGREE OF PRECISEON 3