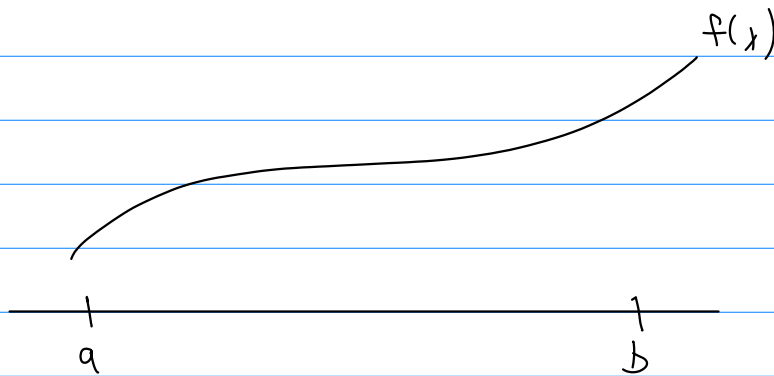


## Simpson's Rule

Approximate  $f(x)$ ,  $x \in [a, b]$     e)    a    function



Use  $x_1 =$        $x_2 =$        $x_3 =$        $h =$

Recall the Lagrange Interpolant:

$f(x) \approx$

Then  $\int_a^b f(x) \approx$

$\Rightarrow x_1 =$	$w_1 =$	$=$
$x_2 =$	$w_2 =$	$=$
$x_3 =$	$w_3 =$	$=$

Local Error:  $e =$

Global Error:  $E =$