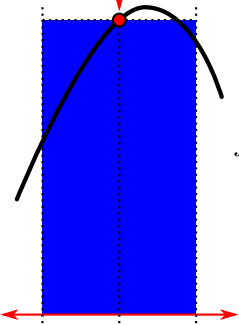
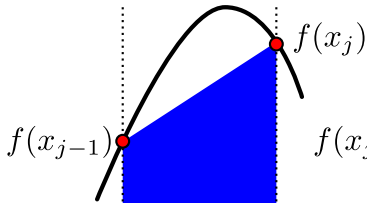


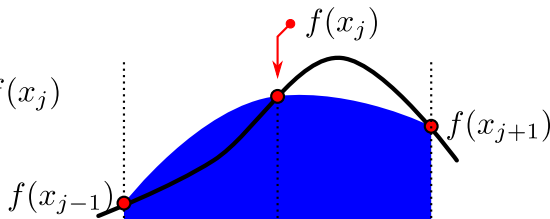
$$f\left(\frac{x_{j-1}+x_j}{2}\right)$$



rectangle
midpoint rule



trapezoid
trapezoidal rule



parabola
Simpson's rule