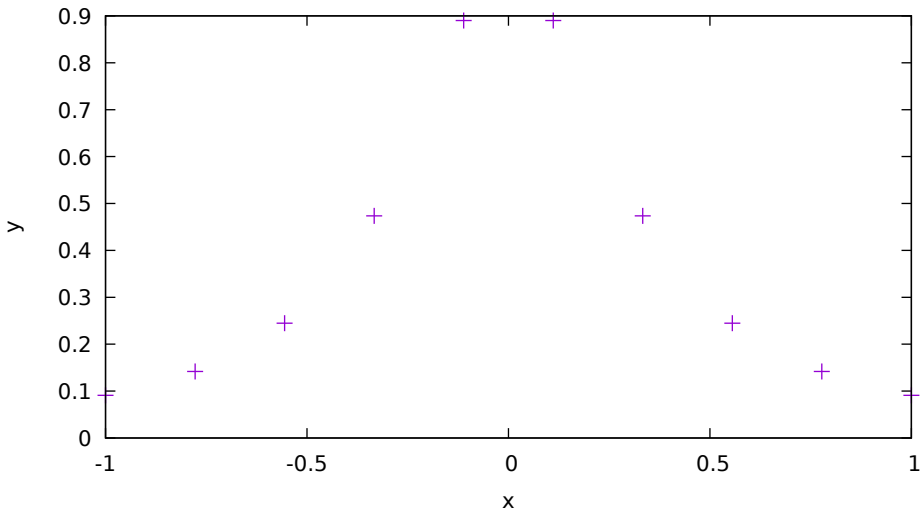
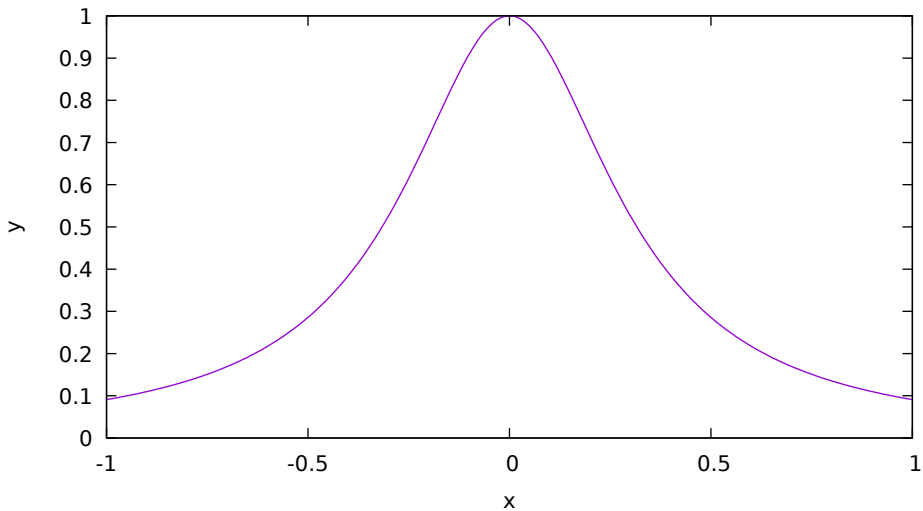


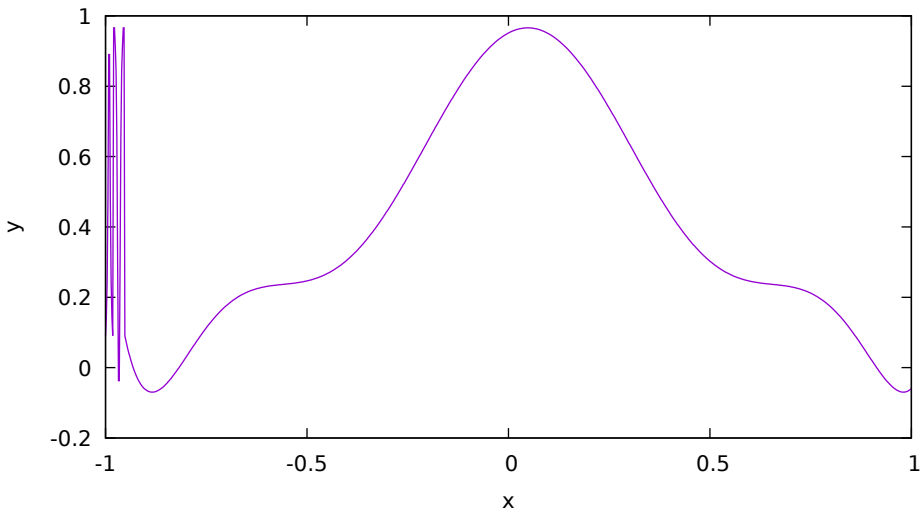
q4 --- original 10 sample points



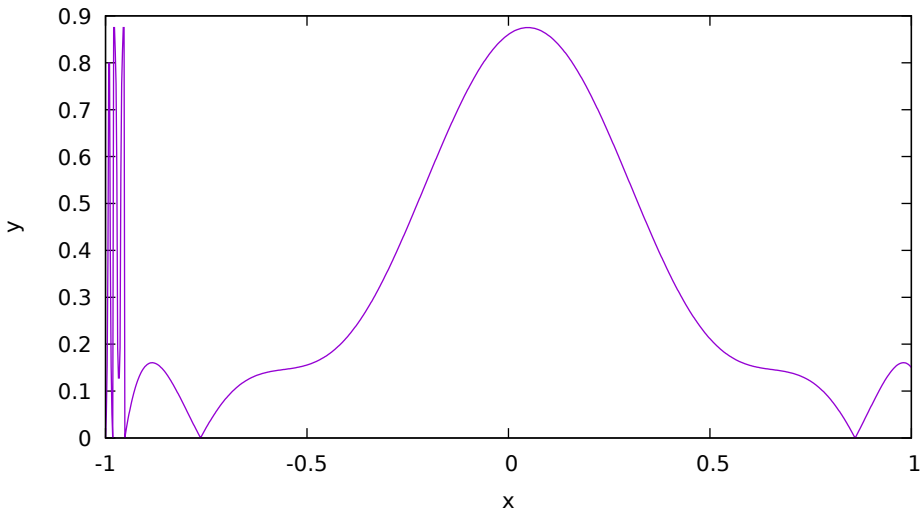
q4 --- Expected curve



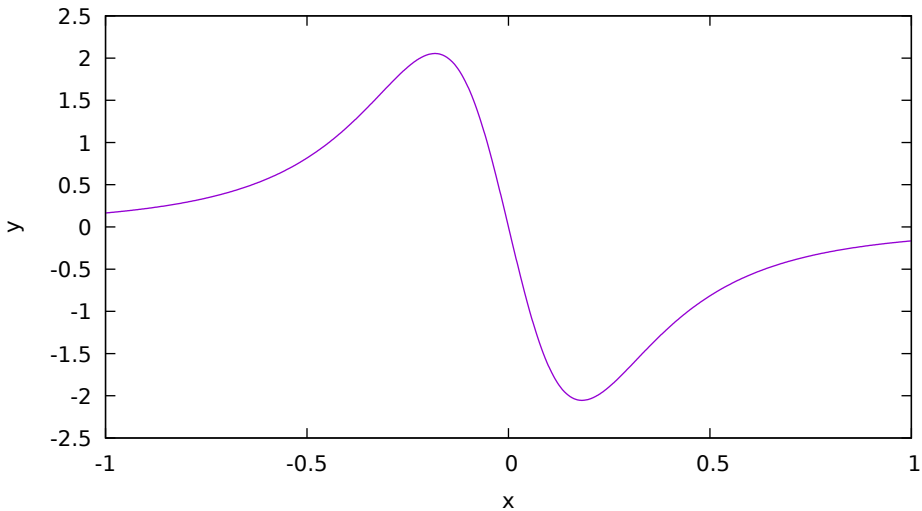
q4 --- approximation curve



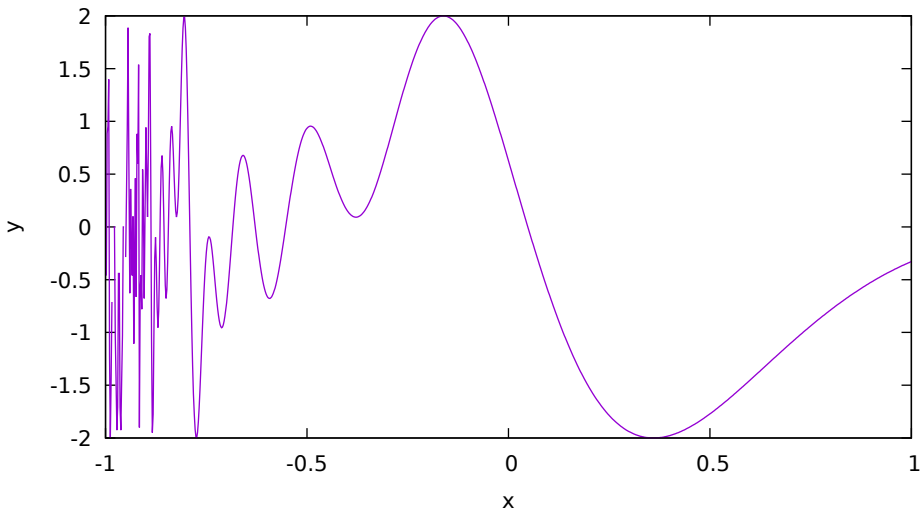
q4 --- error:  $\text{abs}(y_{\text{expect}} - y_{\text{approx}})$



q4 --- Expected derivative curve



q4 --- approximated derivative curve



q4 --- error for derivative:  $\text{abs}(y_{\text{expect}} - y_{\text{approx}})$

