Centered difference approximation $O(h^2)$ to estimate the first derivative of func at ${\bf x}$

Because a decrease in step size can lead to subtractive cancellation, as the truncation errors are decreased the roundoff errors are increased.

Starting with h=1, divide n times the step size by a factor of 10 to demonstrate how roundoff becomes dominant as h is reduced.

Returns: vectors of

h: step size

fd: approximation

te: true error