## Benchmark problem 1: $f(x) = x \sin x$ $p_f = 1.0e - 04$ 40 30 20 10 0 --10-20-30 $p_f = 1.0e - 06$ f(x) $p_f = 1.0e - 04$ **-40** + -100 5 10 15 20 Х