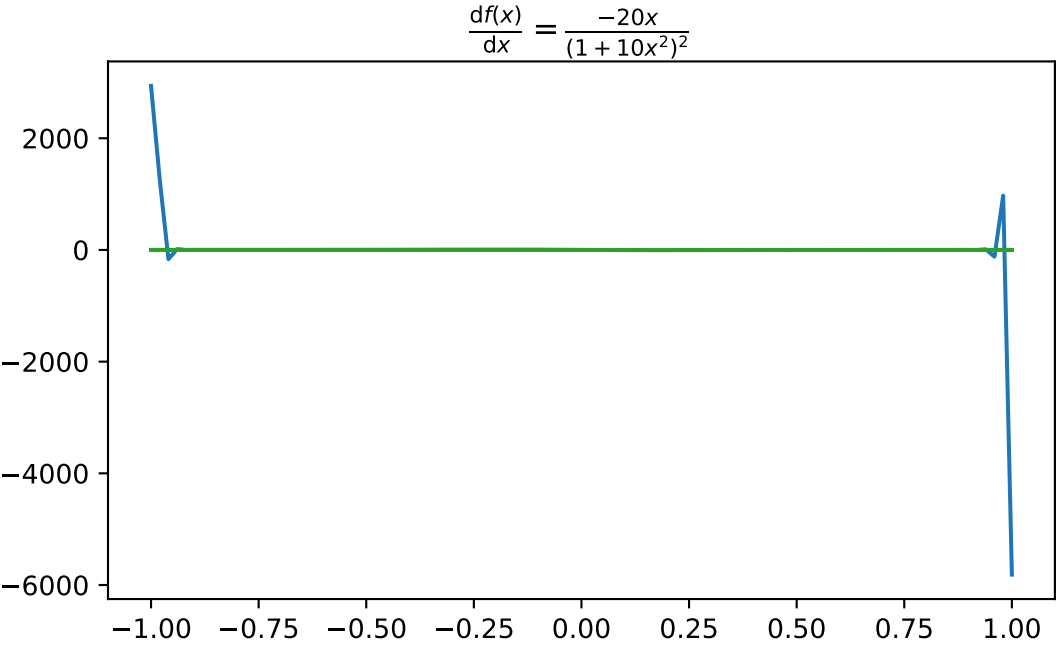
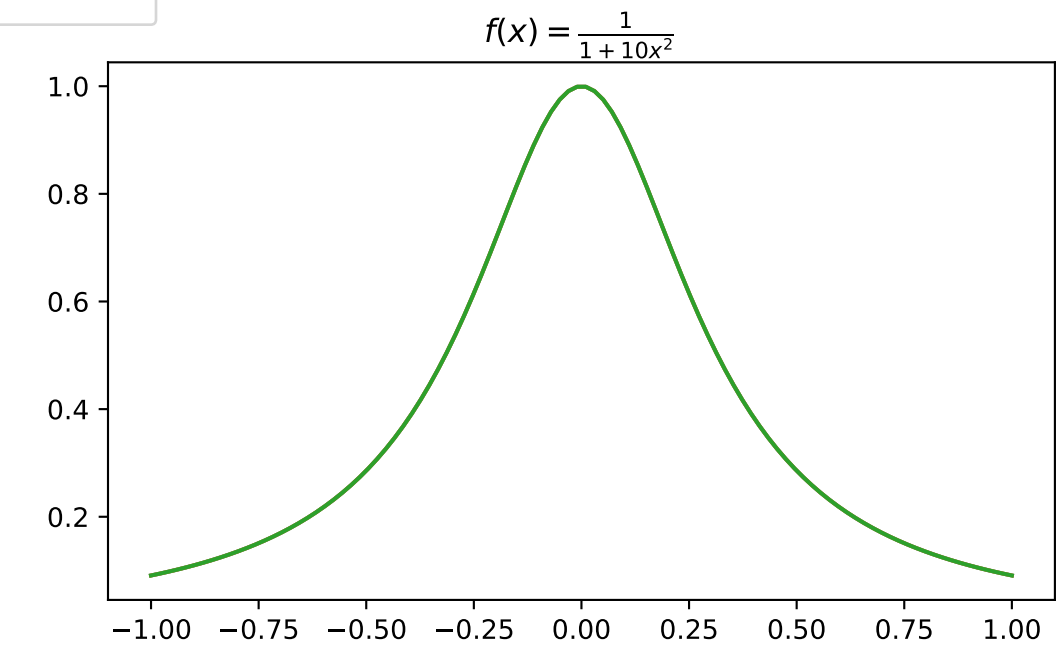
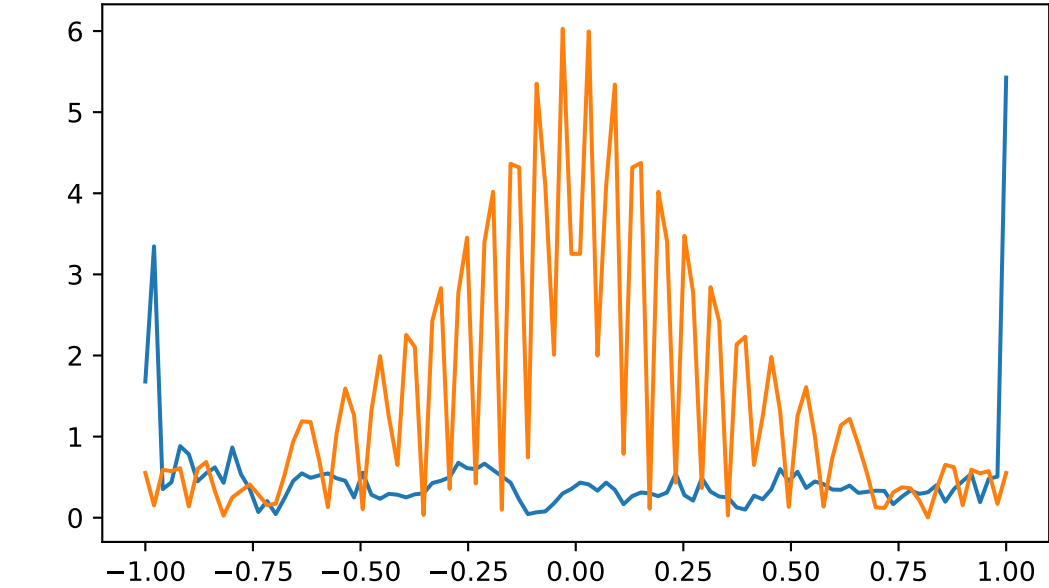


Function approximation using N=100 linear and root sampling

- $f(x)_l$ Linear sampling
- $f(x)_r$ Root sampling
- $f(x)$ Exact



$\sup|f(x) - f(x)_l| = 0.00$ at $x=1.00$, $\sup|f(x) - f(x)_r| = 0.00$ at $x=-0.03$



$\sup|\frac{df(x)}{dx} - \frac{df(x)_l}{dx}| = 5813.33$ at $x=1.00$, $\sup|\frac{df(x)}{dx} - \frac{df(x)_r}{dx}| = 0.00$ at $x=-1.00$

