

Figure 4.4.: Bias-variance trade-off: squared bias, variance, irreducible noise, and total MSE as a function of polynomial degree N , estimated from $K = 200$ Monte Carlo runs.

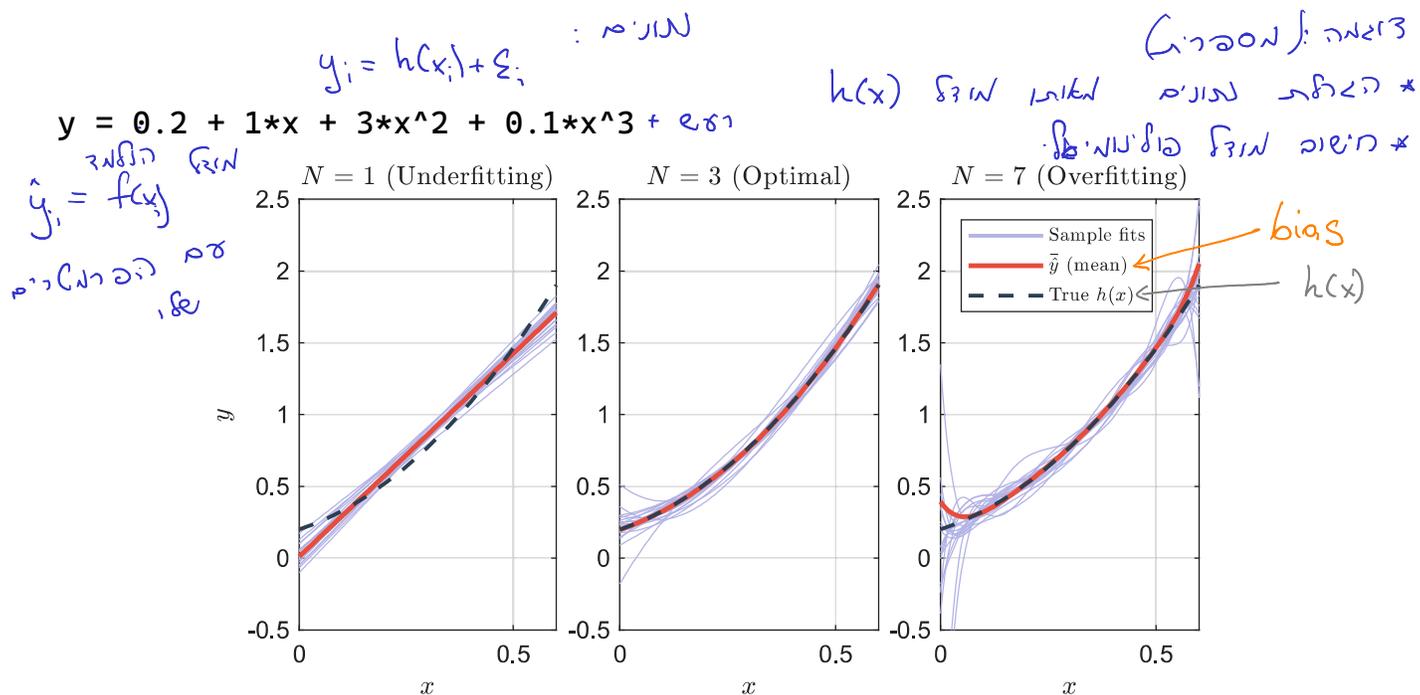


Figure 4.5.: Overlaid polynomial fits from 20 independent training sets at three complexity levels. Red: mean prediction \bar{y} ; dashed black: true function $h(x)$; blue: individual sample fits.