

$f = g(d)$ need to find d given f

don't know how to find $d = g^{-1}(f)$

we can use

$$d = \operatorname{argmin}_d |f - g(d)|$$

forward euler method

$$\frac{d}{dd} |f - g(d)| \approx \frac{|f - g(d+\delta)| - |f - g(d)|}{\delta}$$