Chapter 2.4

1.) (a) Flex better, since it can better learn complex patterns in deep data

(b) Flex worse, since less data to train on.

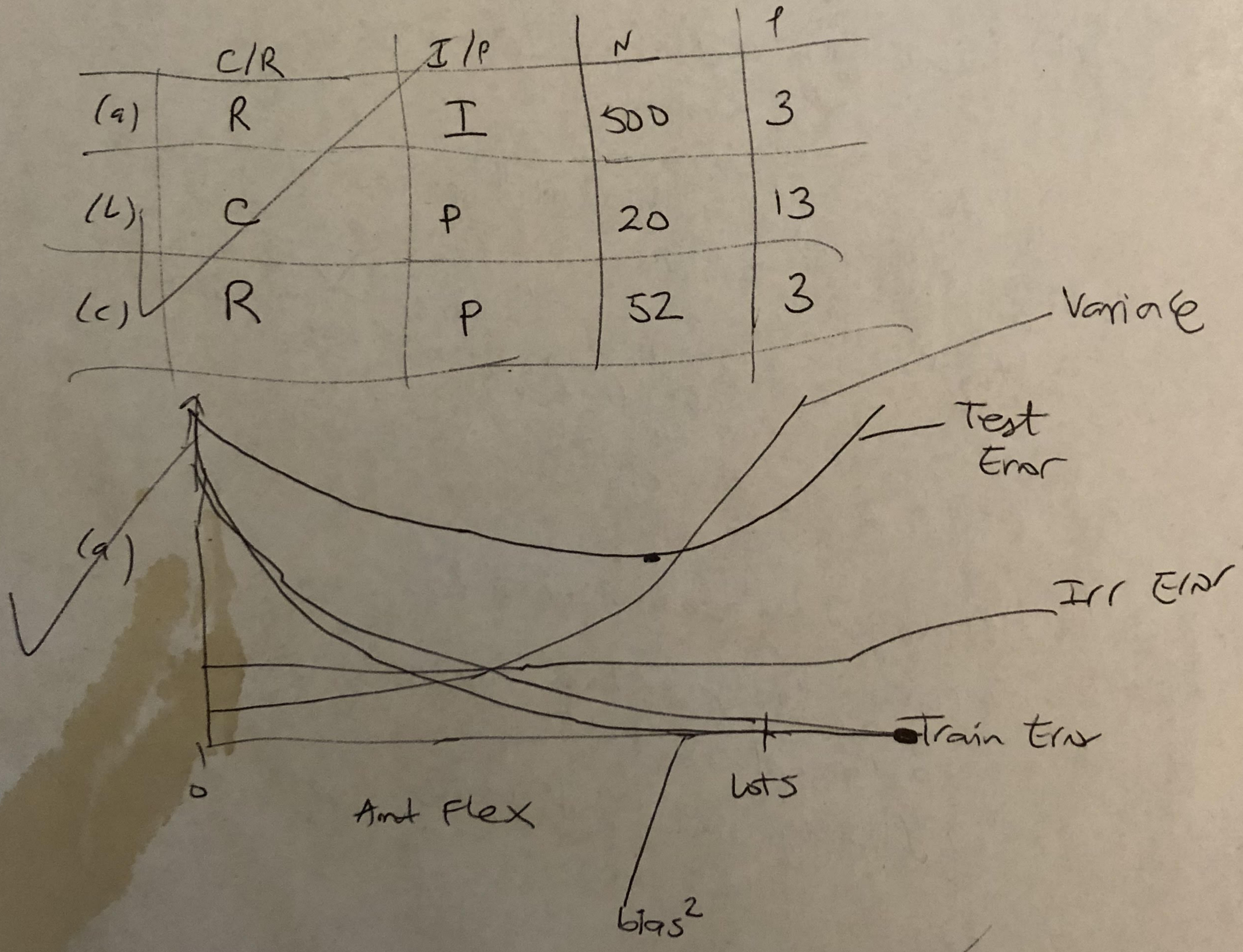
(c) Flex better, since it can adapt to non-linear data patterns.

(d) Flex worse, since it may overfit to lots of noise in data.

2.)

	C/R	I/P	N	P
(a)	R	I	500	3
(b)	C	P	20	13
(c)	R	P	52	3

3.)



(b) $bias^2$ → decreases as more parms explain better

var → increases bc more parms cause more volatility w/ fixed n

train → always decreases w/ more data, may overfit

test → decreases for a bit as bias outweighs var ↑, then starts to increase bc overfit

irred → always constant