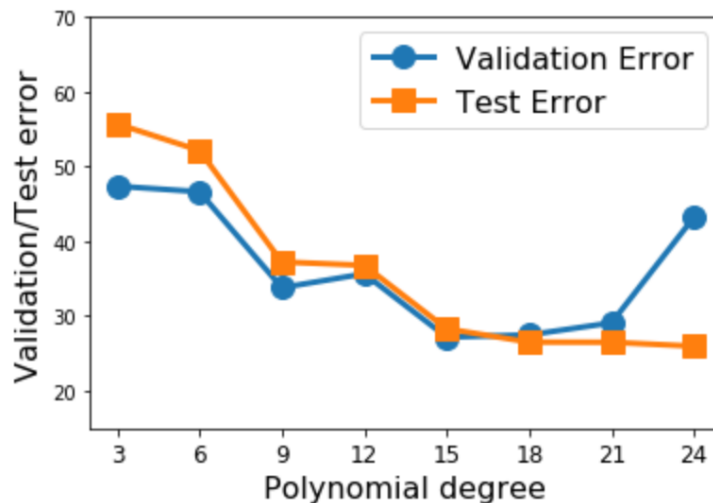


## QUESTION 1

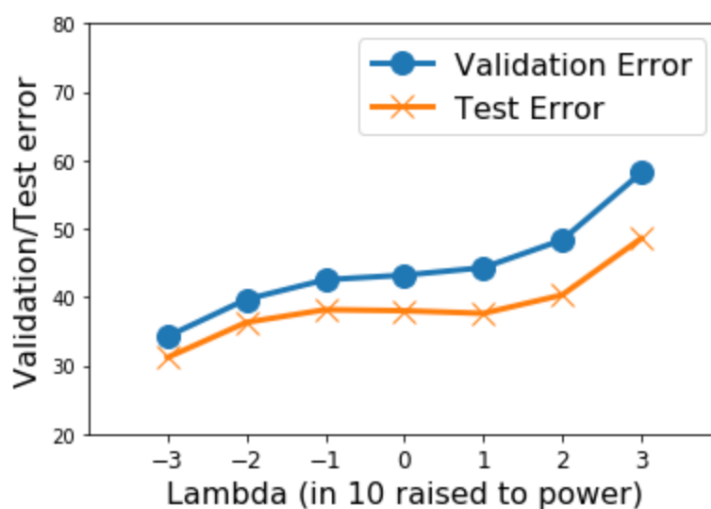
Which choice of  $d$  do you expect will generalize best?



According to the plot, we can take the value of  $d$  as 15 as it gives the lowest error for the test as well as validation data.

## QUESTION 2

What are some ideal values of  $\lambda$ ?



From the above plot, we can see the error starts to increase after  $\lambda \geq 10$ . So an ideal value for  $\lambda$  can be between  $10^{-1}$  to  $10^1$ .