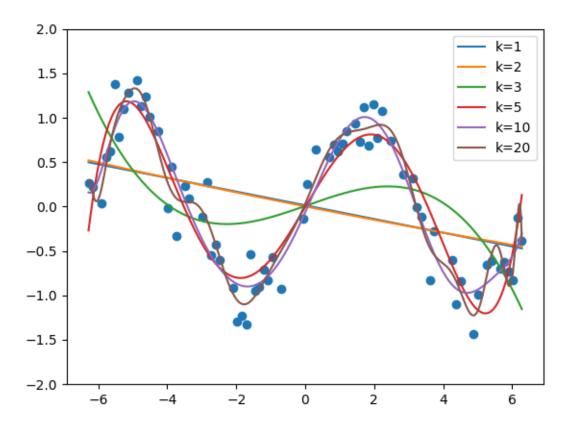
Answer:



We see that k=1,2,3 are all pretty terrible, by k=5 we're getting decent fitting. k=10 is even better, however by k=20 we observe some over-fitting that you'd probably disagree with.