Quit Problem 3

If K=3, and we want to know the predicted value at (0,0,0) we need to find the three closest points to (0,0,0) and average them.

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dist((0,0,0),(0,3,6)) = 3 dist((0,0,0),(2,0,0)) = 2 $dist((0,0,0))(0,1,3)) = 3\sqrt{10^{7}}$ $dist((0,0,0),(0,1,2)) = 3\sqrt{5^{7}}$ $dist((0,0,0),(-1,0,1)) = 3\sqrt{2^{7}}$

dist((0,0,b),(1,1,1)) =) (3

The three closest points are (2,0,0), (-1,0,1)

their respective y-values are

-2, 5.5, and 4.6 * respectively

 $\hat{F}((0,0,0)) = \frac{1}{3}(-2+5.5+4.6) = 2.7$