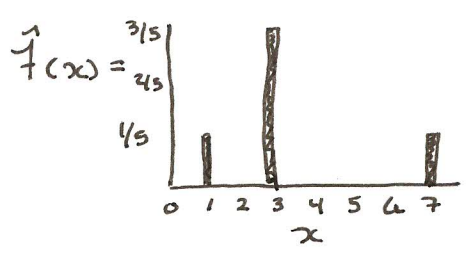
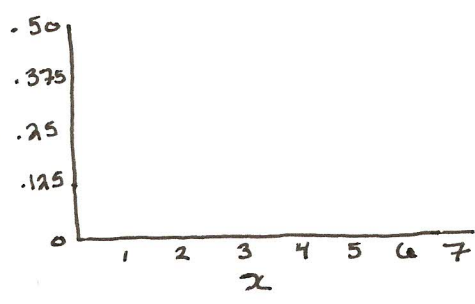


want to know density function at 2.5

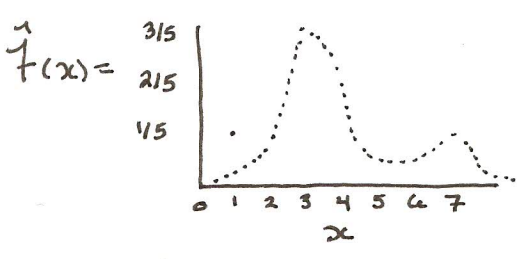
observations: {2, 3, 3, 3, 7}

$$\hat{f}(x) = \begin{cases} 1/5 & x=2 \\ 3/5 & x=3 \\ 1/5 & x=7 \end{cases}$$

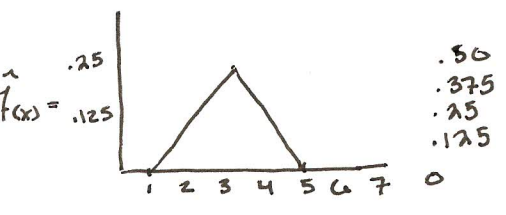
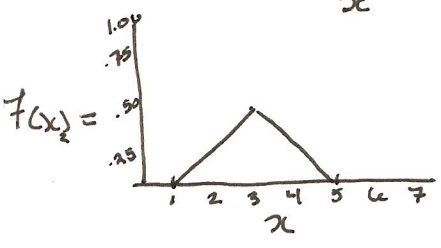
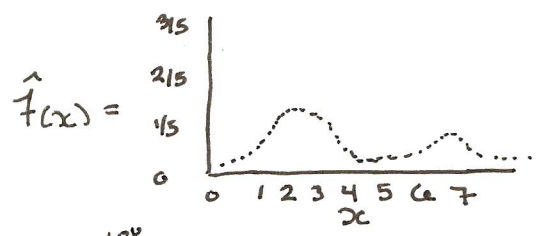
obs. at time 7



$$\hat{f}(x) = 0.25$$



| obs. | $\hat{f}(2.5)$ | weight | |
|------|----------------|--------|-------|
| 2 | .375 | 1/5 | .075 |
| 3 | .375 | 1/5 | .075 |
| 3 | .375 | 1/5 | .075 |
| 3 | .375 | 1/5 | .075 |
| 7 | 0.00 | 1/5 | 0 |
| | | | <hr/> |
| | | | .30 |



obs. At time 3
obs. At time 2

$$\hat{f}(x) = 0.125$$