Example 5.4 $f(si) = \begin{cases} 6 \times 6^{-1} \\ 0 \times 6! \end{cases}$ where 6 > 0.

First Muse of 6. One unhanow is k = 1.

Saught Manual: $\frac{1}{2} = \frac{\pi}{2} \times i = \frac{\pi}{2} = \frac{\pi}{2}$ [Saught moment sample mean) Population Moment $= \int \frac{1}{6+1} \times \frac{6+1}{6+1} \cdot \theta = \frac{\theta}{6+1}$ Equate Sample Monent & Aquilation Monent: Solve for 0: $(0+1) \overline{X} = 0$ $\Theta(\bar{X}-1)=-\bar{X}$ $0 = \frac{-\overline{X}}{\overline{X}-1} = \frac{4\pi \overline{X}}{1-\overline{X}}.$

So $\hat{\Theta} = \frac{\overline{X}}{1-\overline{X}}$ is the method of in owner's extimator of $\hat{\Theta}$.