$$\widehat{F}_{n}(2) - F(2) \leq \widehat{F}_{n}(2_{u+n}) - F(2_{u}) = \widehat{F}_{n}(2_{u+n}) - F(2_{u+n}) + \frac{1}{r}$$

Slep 4 we have
$$\left(\left| \frac{1}{r} \left(\frac{1}{2} \right|_{K_1} \right|_{W_1} \right) - F\left(\frac{1}{2} \right|_{K_1} \right) \left| \frac{1}{r} \right|_{W_1}$$
 and $K = 0, \dots, r$

This is three due to the definition of Amik (and because we already showed pointwise almost sure Convergence)

Now we plugin & in & ond this yields

$$\widehat{F}_{n}(z) - \overline{F}(z) \leq \widehat{F}_{n}(z_{kfn}) - \overline{F}(z_{kfn}) + \frac{1}{m}$$

$$\leq \frac{2}{m}$$