

$$\lambda x. (\underline{F} x) \xrightarrow{k} F, \text{ if } x \notin \text{fv}(F)$$

, if x is not free in F .

$$(\lambda x. (\underbrace{F x}_E) \underbrace{y}_M)$$

$$\xrightarrow{\beta} (F y) = (z y) \quad F = z \quad F = x$$

$$\xrightarrow{k} \boxed{(z y)}$$

$$(\lambda x. (x x) y) \xrightarrow{k} (x y) \leftarrow$$

$$\xrightarrow{\beta} (y y)$$