

$$\{2,4,6,8,10\}$$

$$\{n : N | n \neq 0 \wedge n < 10 \wedge n mod 2 = 0 \bullet n\}$$

$$\begin{array}{l} N\dot{=} \\ n\neq \\ o\wedge \\ n< \\ 10\wedge \\ pmod2= \\ 0 \\ \bullet \\ n \\ \log(n^2) \\ [X] \\ PX \\ P_1X \\ P_1==\{U:PX|U\neq [X]\} \end{array}$$

$$\begin{array}{l} EX \\ FX \\ FX==\{U:PX|\neg\exists V:PU\bullet V\neq U\wedge(\exists f:V\rightarrow U)\} \end{array}$$

$$\begin{array}{l} f: \\ V\mapsto \\ U \\ \forall j:J\bullet P\Rightarrow Q \end{array}$$

$$\begin{array}{l} \exists_1j: \\ J|P \\ f\dot{=} \\ XY \\ f\dot{=} \\ X'\longrightarrow \\ Y' \\ X' \\ X' \\ X'= \\ X \\ \forall x:X;y,z:Y.(x\longmapsto y\in f\wedge x\longmapsto z\in f\Rightarrow y=z) \end{array}$$

$$\begin{array}{l} f(x)= \\ y \\ f\dot{=} \\ X\rightarrow \\ Y \\ f:X\rightarrow Y\Leftrightarrow f:XY\wedge f=X \end{array}$$

$$\begin{array}{l} 1 \\ temp=\{Cork\mapsto 17,Dublin\mapsto 19,London\mapsto 15\} \end{array}$$

$$\begin{array}{l} (Cork\mapsto \\ 18) \\ \{Cork\mapsto 18,Dublin\mapsto 19,London\mapsto 15\} \end{array}$$

$$temp'=temp\oplus Cork\mapsto 18$$

$$\begin{array}{l} \{Cork\rightarrow \\ 17\} \\ \{Cork\rightarrow \\ 18\} \\ f,g\dot{=} \\ XY \\ f\oplus \\ g \\ f\oplus \\ g \\ (f\oplus g)(x)=g(x)where x\in g(f\oplus g)(x)=f(x)where x\notin g\wedge x\in f \end{array}$$

$$f\oplus g=((g)f)\cup g$$

$$f(x)=f(y)\Rightarrow x=y$$

$$Given y\in Y,\exists x\in X such that f(x)=y$$

$$\begin{array}{l} 2 \\ cube==\lambda x:N\bullet x*x*x \end{array}$$

$$\begin{array}{l} R\subseteq \\ (X\times \\ Y) \\ R\dot{=} \\ X\longleftrightarrow \\ Y \\ y\mapsto \\ (x,y)\in \\ R \\ homeowner: \\ Person\longleftrightarrow \\ Home \\ daphne\mapsto \\ mandalay\in \\ l \end{array}$$