





Define something in terms of a

Base case(s) that don't depend on

Constructor case(s) that depend on simpler cases.

Albert R Meyer, February 29, 2012

lec 5M.2

6 9 13 7 12 10 5 3 1 4 14 15 8 11 2 Example Definition: set E 1. $n \in E$ and n > 0, then $n + 2 \in E$: 0, 0+2, (0+2)+2, ((0+2)+2) +2 0, 2, 4, 6,... 2. $n \in E$ and n > 0, then $-n \in E$ -2, -4, -6, ... all even numbers $\Theta \Theta \Theta$ Albert R Meyer, February 29, 2012 lec 5M.4















The 18.01 Functions, F18
Some functions in F18:

$$-x = (-1) \cdot x$$

 $\sqrt{x} = (x^2)^{(-1)}$ ----inverse
 $\cos x = (1 - (\sin x \cdot \sin x))^{1/2}$
 $\ln x = (2^{x} \log e)^{(-1)}$