Notes on Midterm

Midterm scores

40s	1
50s	6
60s	17
70s	19
80s	8
90s	3

mean/median/mode 71/72/73

L 三気のかる* hi= {x | 3ceInt. cx 6L} L2 = { X | 3 C 6 2, 4 6 2 x X= C4, 4 6 6 } L= { E, a, ab, aba } Ly = { , x, b, ba } Lz = {a,b, an, ba, aab, bab, aaba, baba} (aub) (regexp for L) $\sum \bullet \mathsf{L}$

Fallacious "proof" #1

$$L = 2.L_1 \quad \text{So by Cleptura with } a$$

$$d = d \cdot X$$

$$L_1 i \approx \text{regula}$$

$$L = R \cup L_1$$

$$\Sigma \neq = 2 \times 0 \times 1$$

Fallacious "proof" #2

"ALL Languages are regular" $L = \{ X_1, X_2, X_3, \dots \}$ X, is a regular expr -. 4 = { x, 3 is regular LK = EXISTEN XK 3 is veg. ((KK V XK+1) = { X XK+1} 70-90-00-00-00

This correctly shows that each L_k is regular for each finite k, no matter how large. It does not show that L is regular; induction never "jumps" to the infinite "limit" case.

Fallacious "proof" #3



Correct Construction

