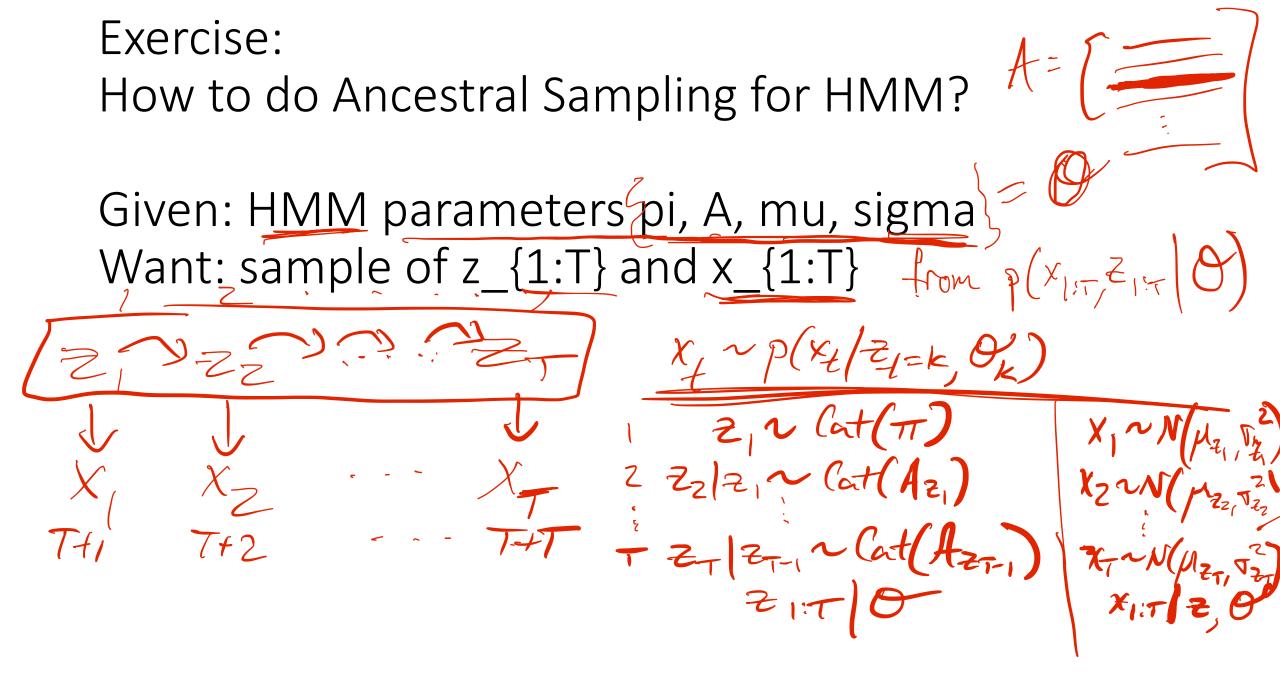
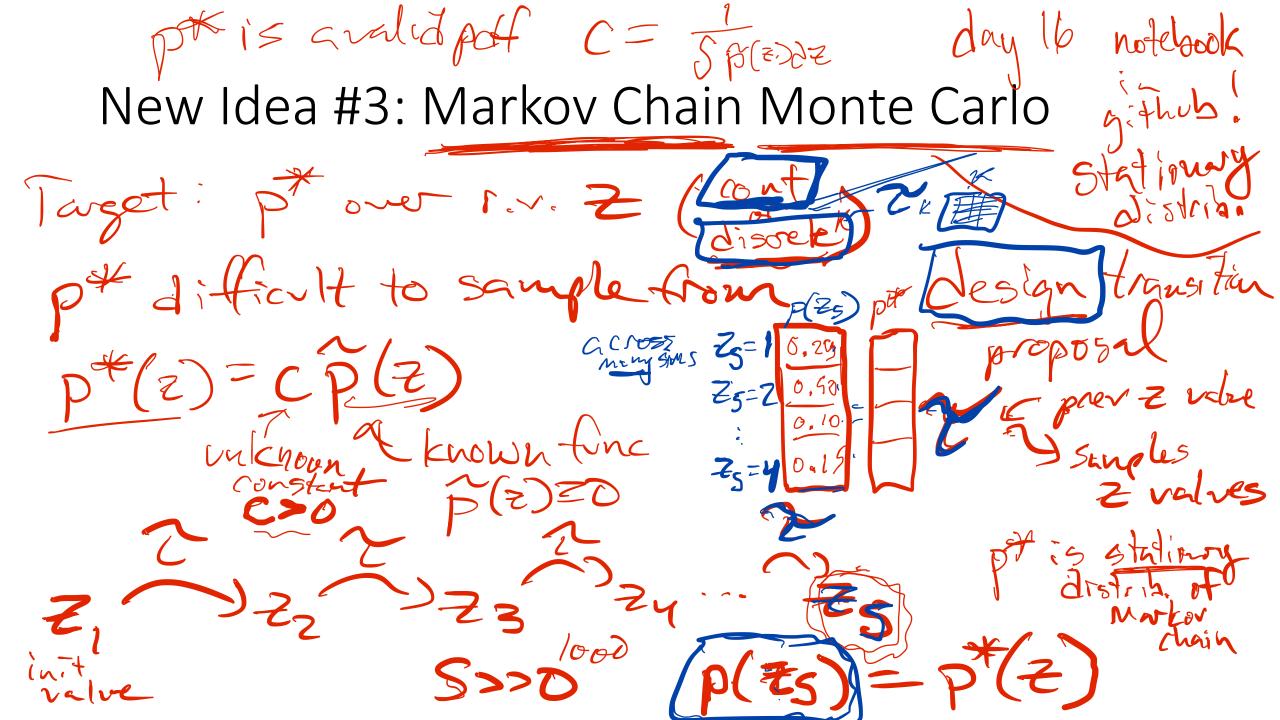


New Idea #2: Ancestral Sampling Joint distribution = product of simple conditionals  $z_1 z_2 z_3 z_4 P(z_1)$ de node indices  $P(z_2|z_1) P(z_3|z_4,z_1)$ s.t. i afterits prots P(Zu/23,22,2)





## New Idea #4: Inverse CDF Sampling Method

Consider for example the exponential distribution

$$p(y) = \lambda \exp(-\lambda y) \tag{11.7}$$

where  $0 \le y < \infty$ . In this case the lower limit of the integral in (11.6) is 0, and so  $h(y) = 1 - \exp(-\lambda y)$ . Thus, if we transform our uniformly distributed variable z using  $y = -\lambda^{-1} \ln(1-z)$ , then y will have an exponential distribution.

