6.4. The transition probab. Matrix.

Let 
$$P_{ij}(t) = P\{X(t,s) = j \mid X(s) = i \}$$

P(j)  $P_{ij}(t) = P\{X(t,s) = j \mid X(s) = i \}$ 

P(j)  $P_{ij}(t) = P_{ij}(t)$ 

Right  $P_{ij}(t) = P_{ij}(t)$ 

Rack ward kolmogorov equation.

P(j)  $P_{ij}(t) = P_{ij}(t)$ 

Right  $P_{ij}(t) = P_{ij}(t)$ 

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P(t) = Rep(t)

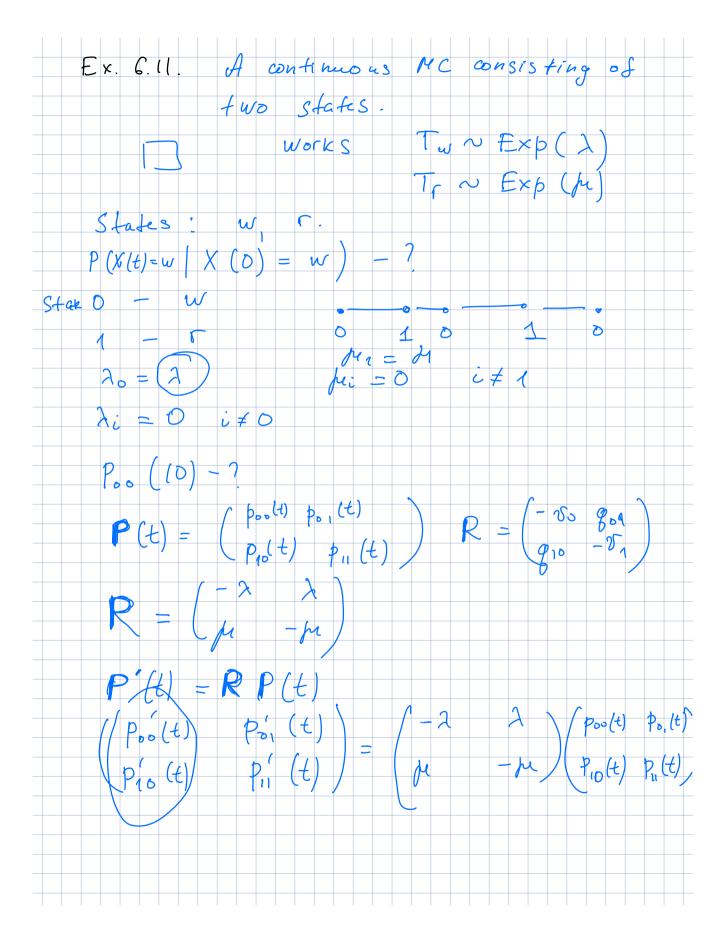
Forward to Imogorov equation.

P(j)  $P_{ij}(t) = P_{ij}(t)$ 

Right  $P_{ij}(t) = P_{ij}(t)$ 

Ex. Pure birth process.

$$v_i = \lambda_i$$
 $P_{0i} = 1$ 
 $P_{i,i+1} = 1$ 
 $P_{i,j} = 0$ 
 $i \neq i \neq 1$ 
 $P_{i,j} = 1$ 



$$P_{10}(t) = -\lambda P_{00}(t) + \lambda P_{10}(t) | x M$$

$$P_{10}(t) = p_{10}(t) - p_{10}(t) | x \lambda$$

$$p_{10}(t) + \lambda P_{10}(t) = 0$$

$$V p_{10}(t) + \lambda P_{10}(t) = C$$

$$P_{00}(t) + \lambda P_{10}(t) = 0$$

$$p_{10}(t) = p_{10}(0) = 0$$

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$$p_{$$

$$\frac{d\lambda}{h} = -(h+\lambda)dt$$

$$\ln h = -(h+\lambda)t + C = C = C + k$$

$$h(t) = k e$$

$$P_{oo}(t) + M = k e - (h+\lambda)t$$

$$P_{oo}(t) = k e + h + k$$

$$t = 0$$

$$P_{oo}(0) = 1$$

$$1 = k + M + k = 1 - M + k$$

$$P_{oo}(t) = \frac{A}{A + h} = e + M + k$$

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$$P_{oo}$$