

Presentation Title

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Bayes Business School.
DD/MM/YYYY



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2. Math examples

2.1 Sample Subsection

2.2 Set Theory

2.3 Permutations and Combinations

2.4 Matrices

3. Other display examples

4. Conclusion

Administrative Details

About myself:

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- Email: dummy.email@domain.com.
Personal website: <https://loremipsum.example.com>.

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Tutorials' details:

- Cover around 2-3 lorem ipsum questions every week.
- Requirement: be *minimally* familiar with the lorem ipsum dolor sit amet, and, if possible, also with the respective lorem exercises.
- References: Doe, 2024 & Smith, 2025

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Sample Title

- Lorem ipsum dolor sit amet, consectetur adipiscing elit.

$$f(x) = \frac{p(x)}{q(x)}$$

for $p(x)$ and $q(x)$ being polynomial functions.

- Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. That is:

$$\frac{p(x)}{q(x)} = \underbrace{s(x)}_{\text{quotient}} + \frac{\overbrace{r(x)}^{\text{remainder}}}{q(x)}$$

where $\frac{r(x)}{q(x)}$ is now a proper rational function.

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Header 1	Header 2
$\frac{px+q}{(x-a)(x-b)}, a \neq b$	$\frac{A}{x-a} + \frac{B}{x-b}$
$\frac{px+q}{(x-a)^2}$	$\frac{A}{x-a} + \frac{B}{(x-a)^2}$
$\frac{px^2+qx+r}{(x-a)(x-b)(x-c)}$	$\frac{A}{x-a} + \frac{B}{x-b} + \frac{C}{x-c}$
$\frac{px^2+qx+r}{(x-a)^2(x-b)}$	$\frac{A}{x-a} + \frac{B}{(x-a)^2} + \frac{C}{x-b}$
$\frac{px^2+qx+r}{(x-a)(x^2+bx+c)}$	$\frac{A}{x-a} + \frac{Bx+C}{x^2+bx+c}$
*where $x^2 + bx + c$ cannot be factorised further	

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2.2. Set Theory Expressions

- **Symmetric difference:**

$$A\Delta B = (A\setminus B) \cup (B\setminus A) = (A \cap B^c) \cup (B \cap A^c)$$

- **De Morgan's laws:**

$$(A \cup B)^c = A^c \cap B^c \quad \text{and} \quad (A \cap B)^c = A^c \cup B^c$$

↑
up arrow

down arrow

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2.4. Matrices. Diebold-Li model: state-space representation

- Measurement equation:

$$\begin{pmatrix} y_t(\tau_1) \\ y_t(\tau_2) \\ \vdots \\ y_t(\tau_{43}) \end{pmatrix} = \begin{pmatrix} 1 & \frac{1-e^{-\lambda_t\tau_1}}{\lambda_t\tau_1} & \frac{1-e^{-\lambda_t\tau_1}}{\lambda_t\tau} - e^{-\lambda_t\tau_1} \\ 1 & \frac{1-e^{-\lambda_t\tau_2}}{\lambda_t\tau_2} & \frac{1-e^{-\lambda_t\tau_2}}{\lambda_t\tau} - e^{-\lambda_t\tau_2} \\ \vdots & \vdots & \vdots \\ 1 & \frac{1-e^{-\lambda_t\tau_{43}}}{\lambda_t\tau_1} & \frac{1-e^{-\lambda_t\tau_{43}}}{\lambda_t\tau} - e^{-\lambda_t\tau_{43}} \end{pmatrix} \times \begin{pmatrix} L_t \\ S_t \\ C_t \end{pmatrix} + \begin{pmatrix} \varepsilon_t(\tau_1) \\ \varepsilon_t(\tau_2) \\ \vdots \\ \varepsilon_t(\tau_{43}) \end{pmatrix} \quad (1)$$

- Transition equation:

$$\begin{pmatrix} L_t - \mu_L \\ S_t - \mu_S \\ C_t - \mu_C \end{pmatrix} = \begin{pmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{pmatrix} \times \begin{pmatrix} L_{t-1} - \mu_L \\ S_{t-1} - \mu_S \\ C_{t-1} - \mu_C \end{pmatrix} + \begin{pmatrix} \eta_t(L) \\ \eta_t(S) \\ \eta_t(C) \end{pmatrix} \quad (2)$$

where ε and η denote the disturbances in each equation respectively.

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Figure 2: Write picture caption here.

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Conclusion

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Doe, J. (2024). *An example of dummy book* (2nd) [This is a dummy book for illustrative purposes]. Fictional Press.



Smith, J. (2025). *Understanding placeholder references* (3rd) [This is a dummy reference for illustrative purposes]. Imaginary Press.

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