

Pengantar

# Analisa Terapan: Metode Numerik



## An advice

- If you don't let a teacher know at what level you are by asking a question, or revealing your ignorance you will not learn or grow.
- You can't pretend for long, for you will eventually be found out. Admission of ignorance is often the first step in our education.
  - Steven Covey—Seven Habits of Highly Effective People

# What do you think?

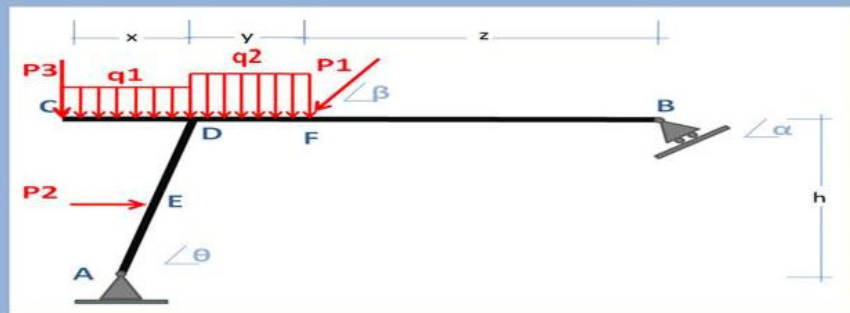
**In class**



**Homework**



**In exam ...** 😊



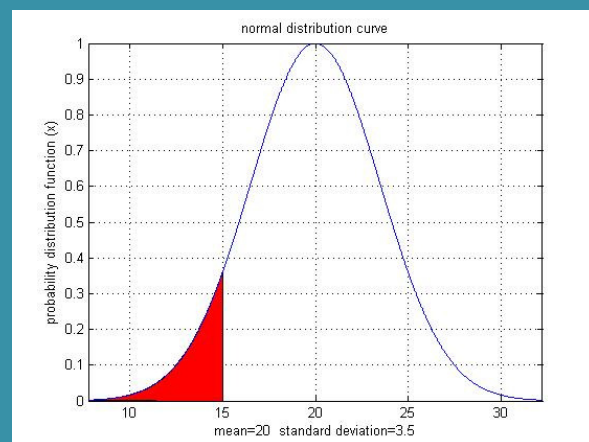
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## Mengapa menggunakan Metode Numerik?

- Untuk menyelesaikan masalah yang tidak dapat diselesaikan dengan prosedur eksak

$$\frac{1}{\sqrt{2\pi}} \int_{-\infty}^x e^{-\frac{u^2}{2}} du$$



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# Mengapa menggunakan Metode Numerik?

- Untuk menyelesaikan masalah yang sangat rumit!



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# Bagaimana menyelesaikan masalah keteknikan?

Deskripsi Masalah



Model Matematika



Solusi Model Matematika



Pemakaian Solusi

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# Contoh Solusi Masalah Keteknikan

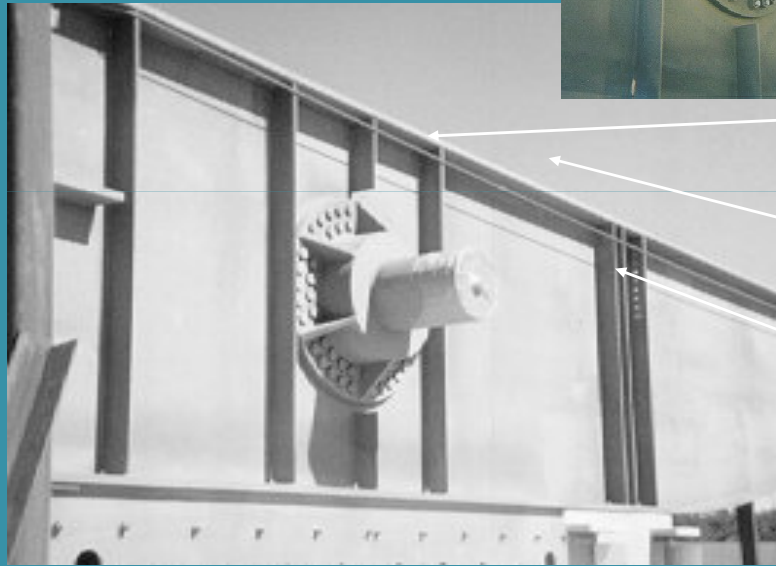


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# Contoh Solusi Masalah Keteknikan



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Hub

Trunnion

Girder