

# Aljabar Linier

[KOMS120301] - 2023/2024

## 1 - Pengenalan Aljabar Linier

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Program Studi S1 Ilmu Komputer  
Universitas Pendidikan Ganesha

Week 1 (Agustus 2023)

- **Beban:** 3 SKS
- **Pengampu:** Dewi Sintiar  
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  - webpage: <https://dewisintiari.github.io/>
- **Asesmen:**
  - Kehadiran ( $\geq 75\%$ ) + sikap + keaktifan + quiz: 20%
  - Tugas: 40%
  - UTS (written/project): 15%
  - UAS (written): 25%
  - Bonus: menulis artikel/scribe/dll...

**Nilai akhir** = 20% Sikap + 40% Tugas + 15% UTS + 25% UAS + Bonus

# Apa tanggung jawab Anda?

Ekuivalensi 1 SKS:

- 50 menit aktivitas kelas
- 60 menit belajar mandiri
- 60 menit tugas terstruktur

3 SKS  $\equiv 150 + 180 + 180 = 510$  minutes = 8.5 hours/week

Penilaian :

20% Sikap + 40% Tugas + 15% UTS + 25% UAS

- **UTS & UAS WAJIB !**

# Berapa nilai yang Anda harapkan?

Penilaian :

20% Sikap + 40% Tugas + 15% UTS + 25% UAS

## Example

Misalkan nilai Anda:

- Sikap: 100
- Tugas: 100
- $\Rightarrow$  Nilai Anda =  $(20\% * 100) + (40\% * 100) = 60 \rightarrow \mathbf{C}$

$\rightarrow$  Anda tidak bisa mendapatkan 100 dalam Sikap jika Anda tidak menghadiri UTS/UAS!

## Integrity



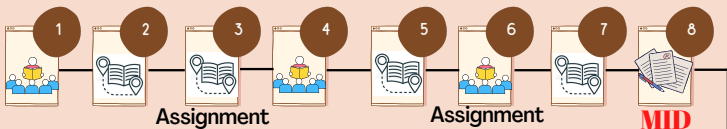
Doing what is right  
even when it is  
difficult.

- Saya tidak mendikte Anda untuk belajar. Saya membantu mengarahkan Anda untuk tetap berada di jalur pembelajaran.
- Anda belajar bukan untuk nilai, tetapi untuk mendapatkan kompetensi yang dapat Anda gunakan untuk mendukung studi Anda, dan setelah Anda lulus.

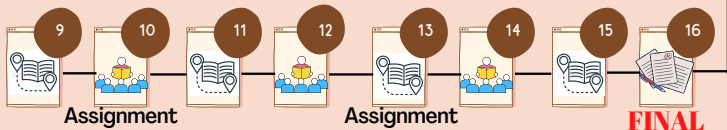
Tugas saya adalah menilai **keseriusan Anda** dalam belajar dan **berapa banyak kompetensi** yang Anda peroleh selama kuliah ini.

# Lesson plan

**START**



**END**



Self-paced / collaborative learning  
synchronous/asynchronous  
via e-learning Undiksha



Students learn independently/cooperatively through teaching  
materials (slides, videos) and assignments prepared in e-learning



Class activities on-site



Face-to-face lectures with group discussions, etc.  
according to the learning model used

# Pengenalan Aljabar Linier

# Apa yang Anda ketahui tentang Aljabar Linier?

Isi bagian yang kosong dengan informasi sebanyak mungkin yang dapat Anda pikirkan.

- ...
- ...
- ...
- ...
- ...
- ...



# Mengapa kita belajar Aljabar Linier?

Isi bagian yang kosong dengan informasi sebanyak mungkin yang dapat Anda pikirkan.

- ...
- ...
- ...
- ...
- ...
- ...

# Penyegaran

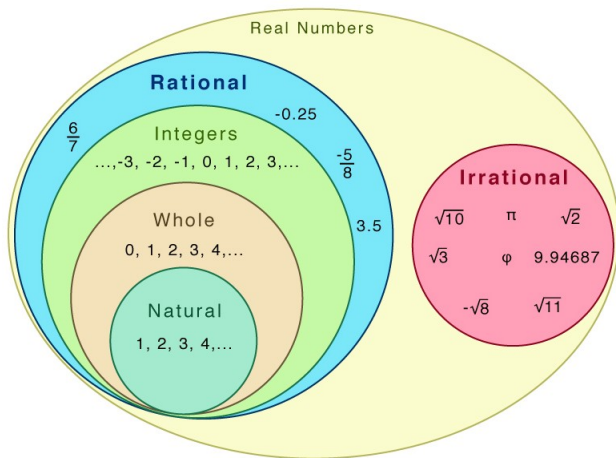


# Take time to review the following subjects!

- **Hirarki himpunan bilangan**

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- Hirarki himpunan bilangan

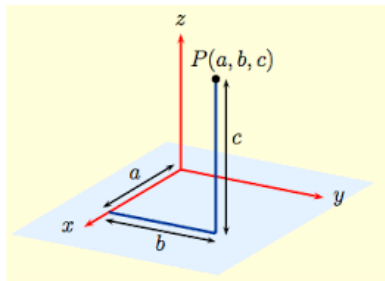
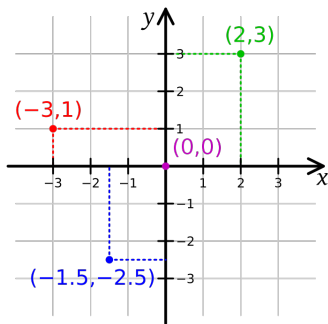


# Take time to review the following subjects!

- **Koordinat Kartesius**

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- Koordinat Kartesius

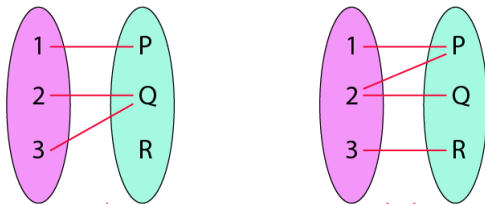


# Take time to review the following subjects!

- **Fungsi**

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- **Fungsi**



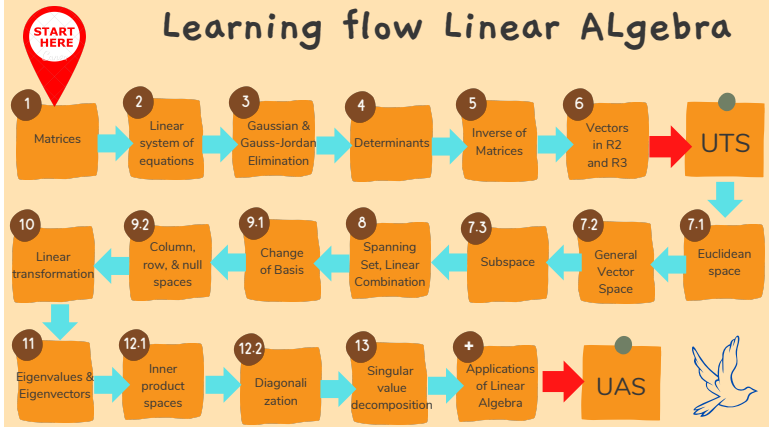
## Ekspresi polinom

$$a_n x^n + a_{n-1} x^{n-1} + a_{n-2} x^{n-2} + \dots + a_1 x + a_0$$

- $ax + b$
- $ax^2 + bx + c$
- ...



# Learning flow Linear Algebra



## Main:

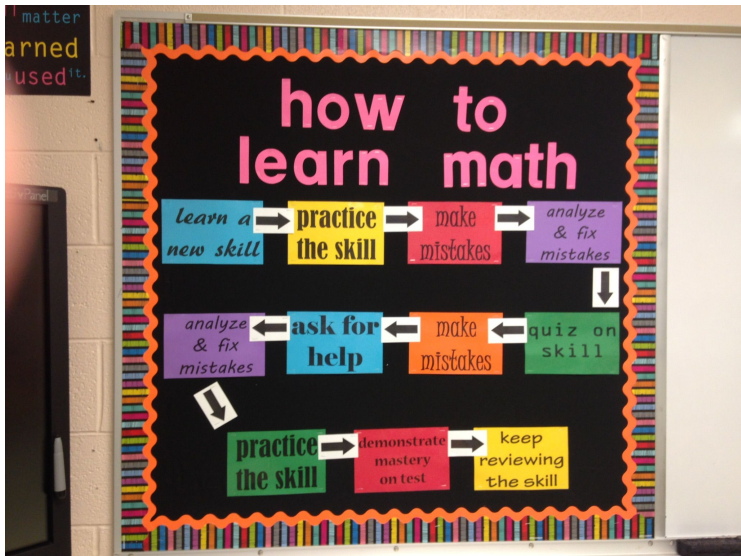
- 1 Elementary Linear Algebra Applicatios Version - Howard Anton, Shris Rorres (2013)

## Supporting:

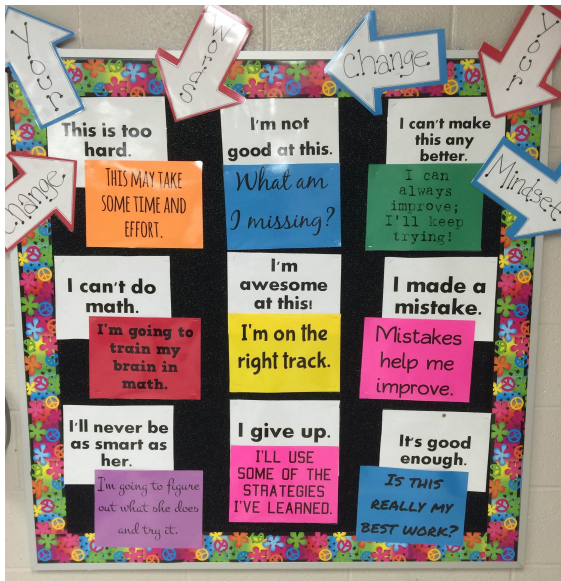
- 1 Schaum's outlines of Linear Algebra, 4th ed (Seymour Lipschutz & Marc Lars Lipson)
- 2 Lecture slides (Dewi Sintiar)

Related Youtube videos are available in the e-learning.

# How to learn MATHEMATICS ???



# Love it first, then you will love it more!



*The hard work puts you where  
the **GOOD LUCK** can find you...*

-anonymous