Database Soal Aljabar Linier AIK21324

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**UJIAN TENGAH SEMESTER 2005/2006**

Hari/Tanggal : Rabu/26 oktober 2005

Pengampu : Dra. Indriyati dan Drs. Bambang Yismianto

Waktu : 90 Menit

1. (15)Jika u = [1, 4, 5] v = [2, 0, 4] w = [2, -1, 3]

Tentukan :

**a. u . (v - 2w)**

**b. (v** x **u)-2 w**

**c. (u** x **v)** x **(v** x **w)**

2. (30)a. Tentukanlah harga determinan berikut ini dengan uraian menurut kolom kesatu

2 1 3 2

3 0 1 -2

1 -1 4 3

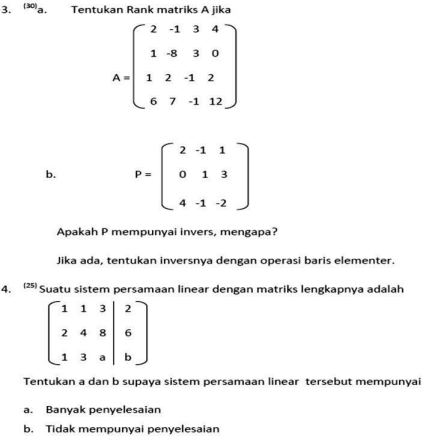
2 2 -1 1

b. Dengan menggunakan sifat determinan (tanpa menghitung) tunjukkan : 1 a b+c

1 b a+c

1 c a+b

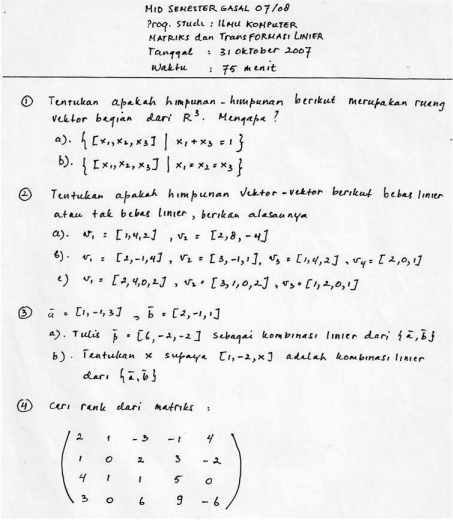
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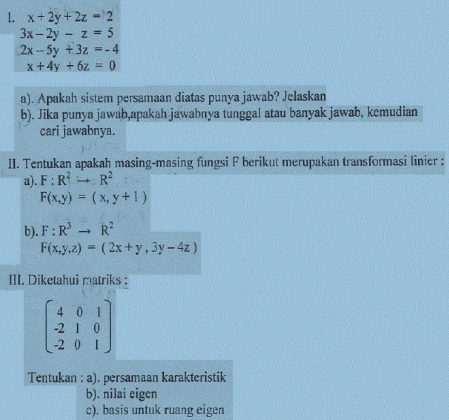
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**UJIAN TENGAH SEMESTER 2007/2008**

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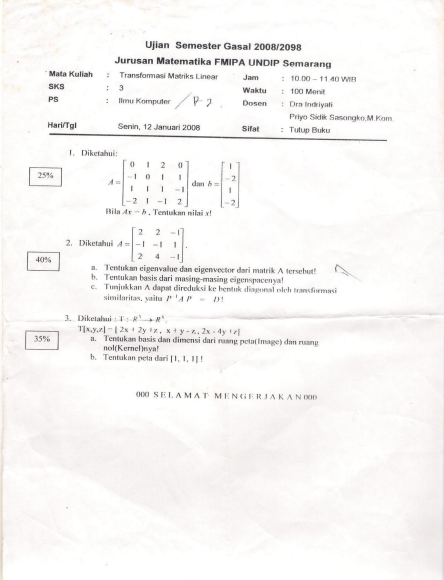
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**UJIAN AKHIR SEMESTER 2007/2008**

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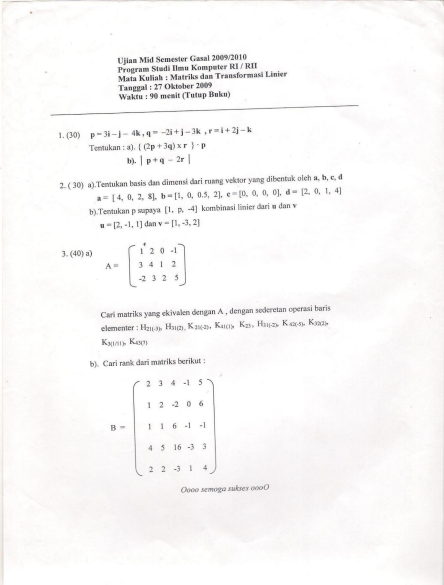
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**UJIAN AKHIR SEMESTER 2008/2009**

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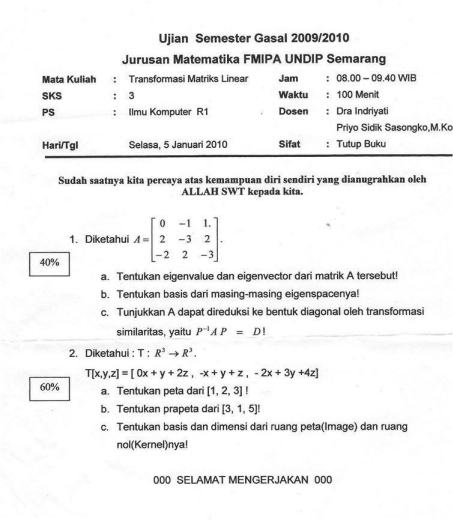
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**UJIAN TENGAH SEMESTER 2009/2010**

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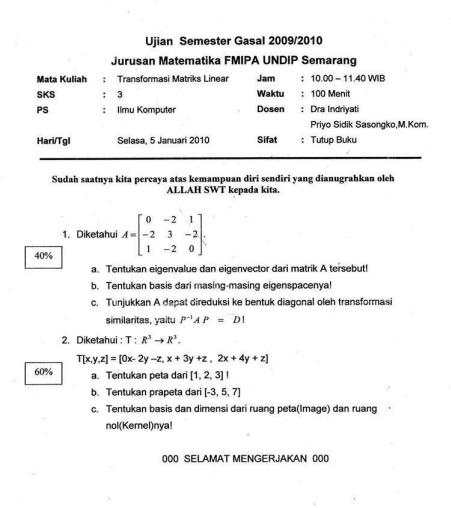
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**UJIAN AKHIR SEMESTER 2009/2010 R1**

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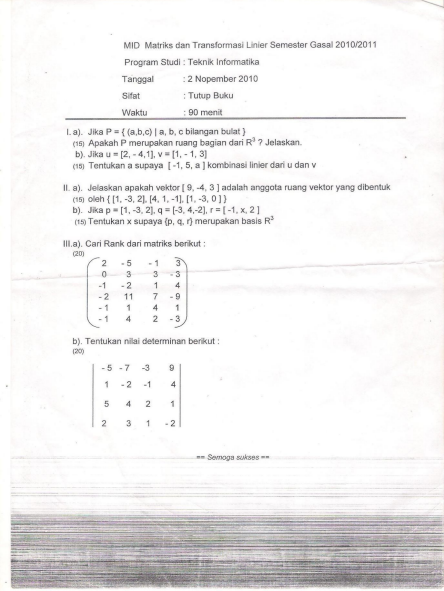
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**UJIAN AKHIR SEMESTER 2009/2010 R2**

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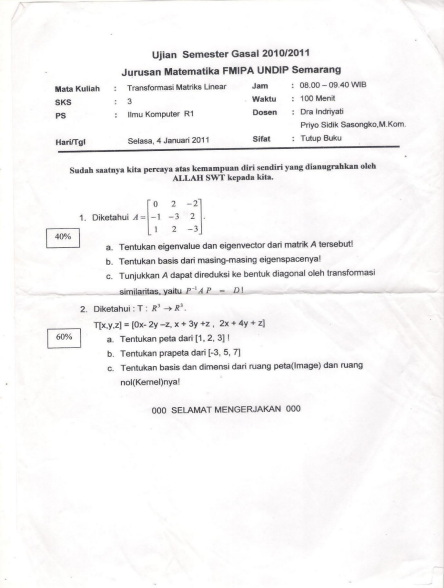
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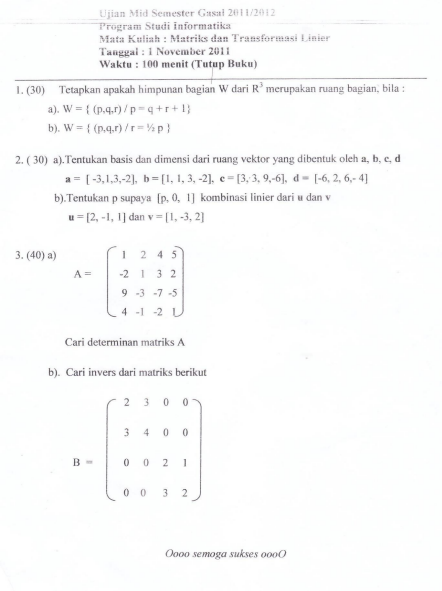
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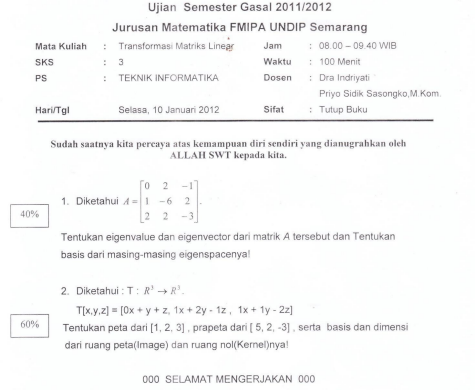
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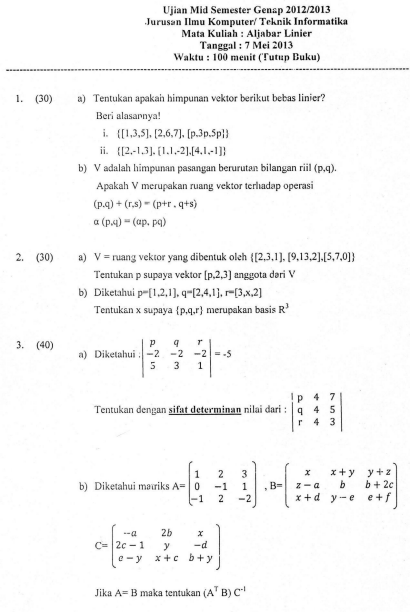
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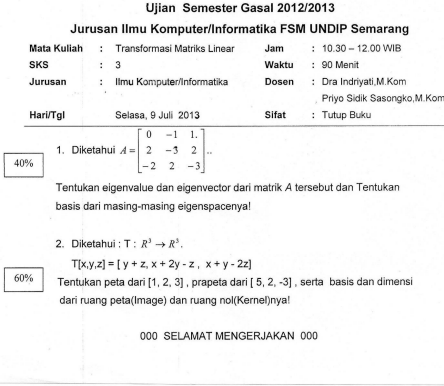
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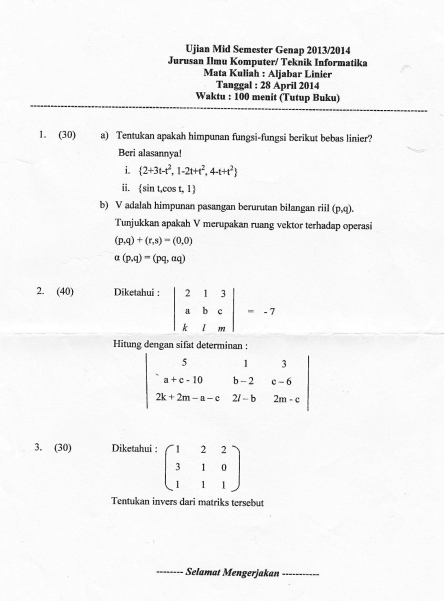
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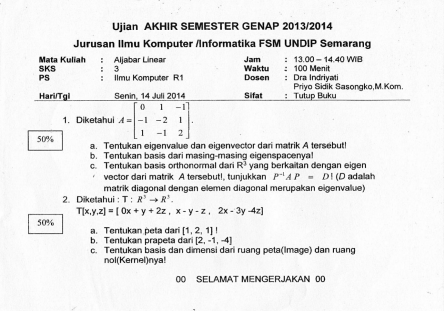
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**UJIAN AKHIR SEMESTER 2019/2020**

1. Tentukan apakah kedua himpunan vektor pada Ruang vektor R3 berikut linear dependen atau linear independen.

Himpunan vektor A:{(2,1,4), (1,2,1),(5,4,9)}

Himpunan Vektor B:{(5,1,3),(2,0,1,),(2,2,5)}

2. Tentukan basis dan dimensi dari solution space persamaan berikut. x1 +x2+ 2x3 + 2 x4=0

6 x1+ 2x2 + 6 x3+ 6x4=0

x1++ 2 x3+ x4=0

3. Berikut adalah basis pada Ruang vektor R3,

v1=(1,2,3)

v2=(1,0,1)

v3=(2,1,2)

Apakah basis tersebut adalah basis orthonormal?

Jika tidak, rubah ke basis orthonormal

4. Diketahui matriks A=

|2 0 0|

|5 1 0|

|0 1 3|

Carilah Matriks P yang mendiagonalkan matriks A tersebut!

Tulis juga hasil diagonalisasi dari matriks tersebut

5. Carilah standard matrix untuk transformasi linear pada ruang dimensi 2 dengan urutan sebagai berikut

Pertama rotasi 30 derajat, dilanjutkan pencerminan terhadap garis y=x, dan terakhir proyeksi orthogonal thd sumbu y

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