Hasil Tugas Kelompok Matriks Algoritma Lanjut – 2PTI52 Stevaldo Claudio – 32220105

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1. Menampilkan Kedua Buah Matriks

_	
Matriks	P
[123]
[231]
[3 1 2	j
Matriks	Q
Matriks [4 3 6	Q 1
	Q] 1
[436	Q]]]

MATRIKS		
	P	
1	2	3
2	3	1
3	1	2
	Q	2
4	3	6
5	6	3
6	4	5

2. Menampilkan Rumus

3. Penyelesaian Rumus 3*Q (Langkah 3)

Ma	tri	iks	(3	*Q)
[12	9 1	18]
[1 5	18	9]
[18	12	15]

	(3*Q)	2
12	9	18
1 5	18	9
18	12	15

4. Penyelesaian Rumus 3*Q transpose (Langkah 4)

Matriks (3*Q)^T	
[12 15 18]	
[9 18 12]	
[18 9 15]	

	(3*Q)^T	
12	15	18
9	18	12
18	9	1 5

5. Penyelesaian Rumus Q invers (Langkah 5)

```
Matriks (Q^-1)
[ -0.400 -0.200 0.600 ]
[ 0.156 0.356 -0.400 ]
[ 0.356 -0.044 -0.200 ]
```

	Q^-1	5
-0,400	-0,200	0,600
0,156	0,356	-0,400
0,356	-0,044	-0,200

6. Penyelesaian Rumus P invers (Langkah 6)

[-0.278 0.056 0.389]	Matriks (P^-1)	
	[-0.278 0.056 0.389]
[0.056 0.389 -0.278]	[0.056 0.389 -0.278]
[0.389 -0.278 0.056]	[0.389 -0.278 0.056]

,		
	P^-1	6
-0,278	0,056	0,389
0,056	0,389	-0,278
0,389	-0,278	0,056

7. Penyelesaian Rumus Q invers * P invers (Langkah 7)

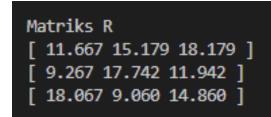
Matriks (Q^-1)*(P^-1)	((Q^-1*P^-1	
[0.333 -0.267 -0.067]	0,333	-0,267	-0,067
[-0.179 0.258 -0.060]	-0,179	0,258	-0,060
[-0.179 0.058 0.140]	-0,179	0,058	0,140

8. Penyelesaian Rumus Q invers * P invers transpose (Langkah 8)

Matriks ((Q^-1)*(P^-1))^T
[0.333 -0.179 -0.179]
[-0.267 0.258 0.058]
[-0.067 -0.060 0.140]

		,	
(Q^-1*P^-1) [/]	\T	8
0,333	-0,179	-0,179	°
-0,267	0,258	0,058	
-0,067	-0,060	0,140	

9. Hasil Akhir Matriks R (Langkah 9)



HASIL PERHITUNGAN

 $R = (3*Q)^T - (Q^{-1*P^{-1}}^T)$ 11,667 15,179 18,179 9,267 17,742 11,942 18,067 9,060 14,860

Seluruh Output Program

```
Matriks P
[123]
[231]
[312]
Matriks Q
[436]
[563]
[645]
Matriks R = (3 * Q)^T - ((Q^-1)^*(P^-1))^T
Matriks (3*Q)
[ 12 9 18 ]
[ 15 18 9 ]
[ 18 12 15 ]
Matriks (3*Q)^T
[ 12 15 18 ]
[ 9 18 12 ]
[ 18 9 15 ]
Matriks (Q^-1)
[ -0.400 -0.200 0.600 ]
[ 0.156 0.356 -0.400 ]
[ 0.356 -0.044 -0.200 ]
Matriks (P^-1)
[ -0.278 0.056 0.389 ]
[ 0.056 0.389 -0.278 ]
[ 0.389 -0.278 0.056 ]
Matriks (Q^-1)*(P^-1)
[ 0.333 -0.267 -0.067 ]
[ -0.179 0.258 -0.060 ]
[ -0.179 0.058 0.140 ]
Matriks ((Q^-1)*(P^-1))^T
[ 0.333 -0.179 -0.179 ]
[ -0.267 0.258 0.058 ]
[ -0.067 -0.060 0.140 ]
Matriks R
[ 11.667 15.179 18.179 ]
[ 9.267 17.742 11.942 ]
[ 18.067 9.060 14.860 ]
```