GIS-E3010 Least-Squares Methods in Geoscience

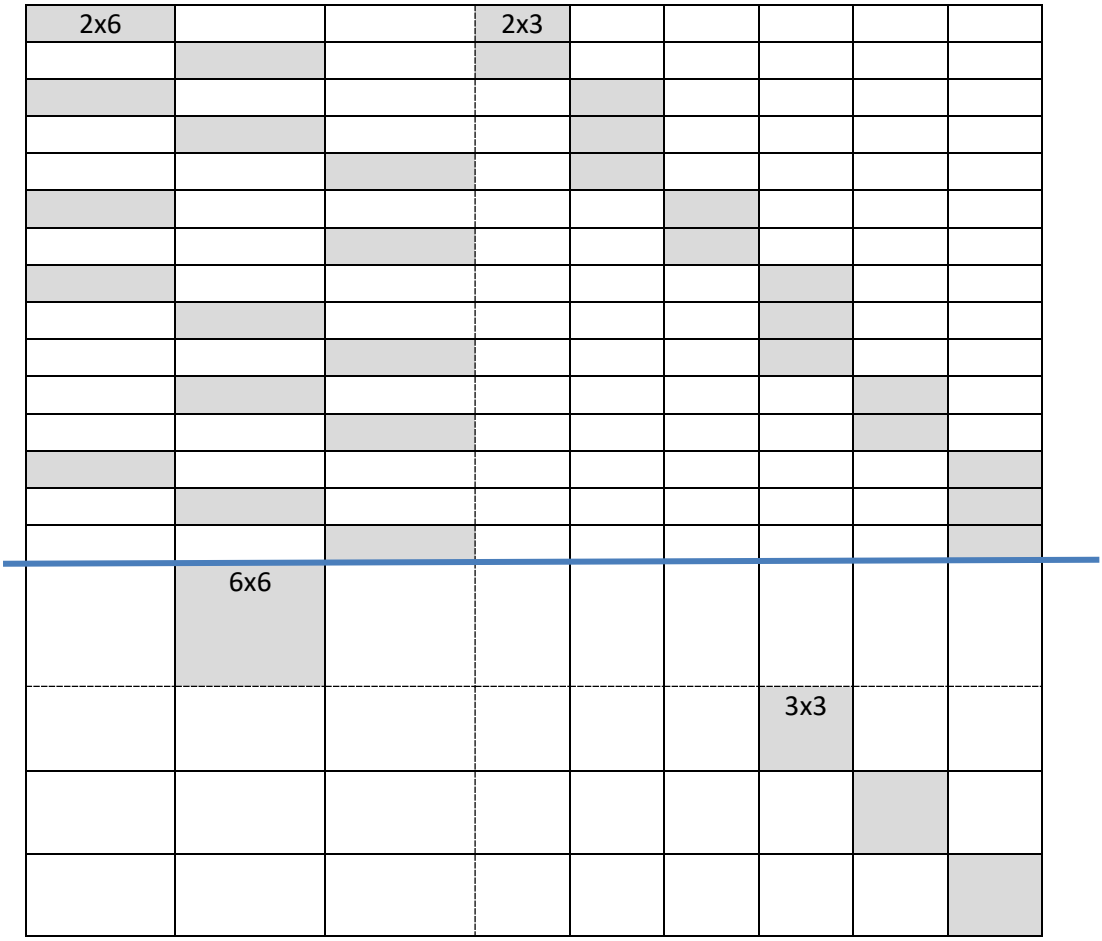
Lecture 6, activation 2

You have below a structure illustration of the design matrix $\begin{bmatrix} A \\ B \end{bmatrix}$ of bundle block adjustment. Your task is to understand from which images the object points are visible. Add ✓ -mark to the table, if the point is measured from current image.

	Image 1	Image 2	Image 3
Point 1 is measured			
Point 2 is measured			
Point 3 is measured			
Point 4 is measured			
Point 5 is measured			
Point 6 is measured			
The orientation is known			

Which object points are geodetically measured (known object points)?

The structure of the design matrix $\begin{bmatrix} A \\ B \end{bmatrix}$ is



Solution:

	Image 1	Image 2	Image 3
Point 1 is measured	✓	✓	
Point 2 is measured	✓	✓	✓
Point 3 is measured	✓		✓
Point 4 is measured	✓	✓	✓
Point 5 is measured		✓	✓
Point 6 is measured	✓	✓	✓
The orientation is known		✓	

	Kuva 1	Kuva 2	Kuva 3
Piste 1 näkyy kuvilla	x	x	
Piste 2 näkyy kuvilla	x	x	x
Piste 3 näkyy kuvilla	x		x
Piste 4 näkyy kuvilla	x	x	x
Piste 5 näkyy kuvilla		x	x
Piste 6 näkyy kuvilla	x	x	x
Minkä kuvan ulkoinen orientointi on tunnettu		x	

Which object points are geodetically measured (known object points)?
points 4, 5 and 6