PPU108
Datorverktyg 1

- Kursmomentet: INL2
- Översikt analysverktyg CAD
- SolidWorks Motion
- Excel

Övningsfiler:
P:\Courses\P\PPU108\Course material\Datorverktyg

Kursmoment INL2

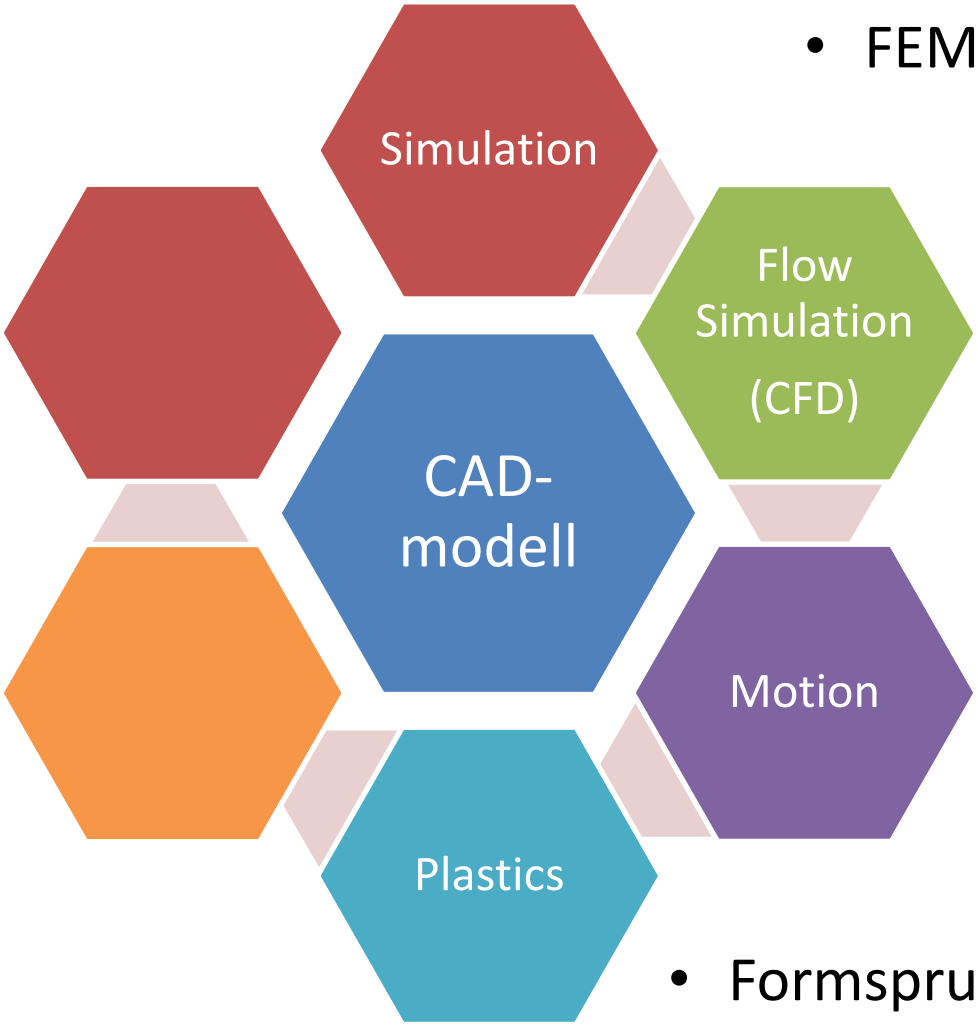
- 1,5 hp
- Motsvarar ca 40 timmar

Kursmoment INL2

Inlämningar

- 2A: Masscentrum, Tisdag 20 februari
- 2B: Friktion, Tisdag 27 februari

Några analysverktyg (SolidWorks)



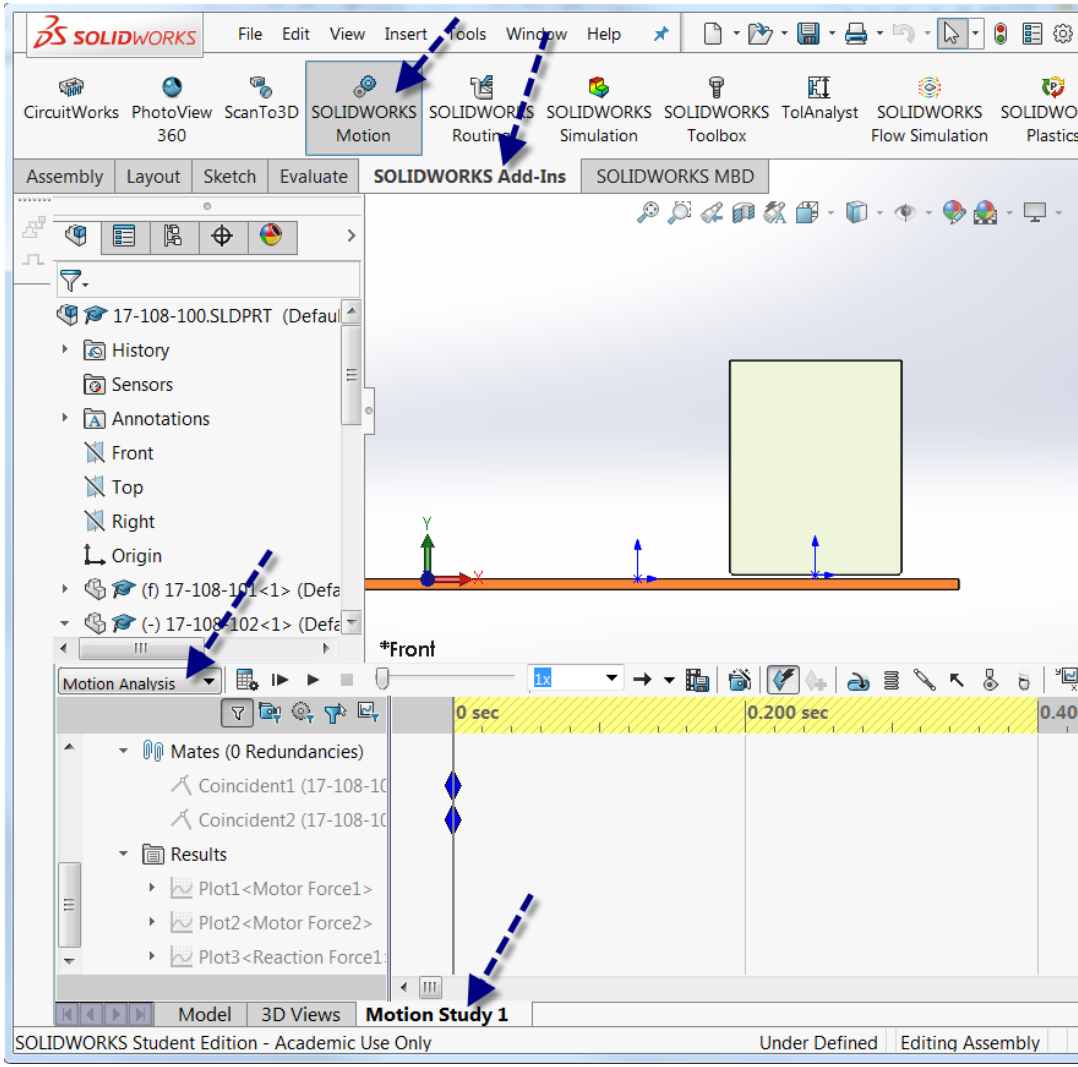
- FEM-analys

- Statik
- Kinematik
- Kinetik

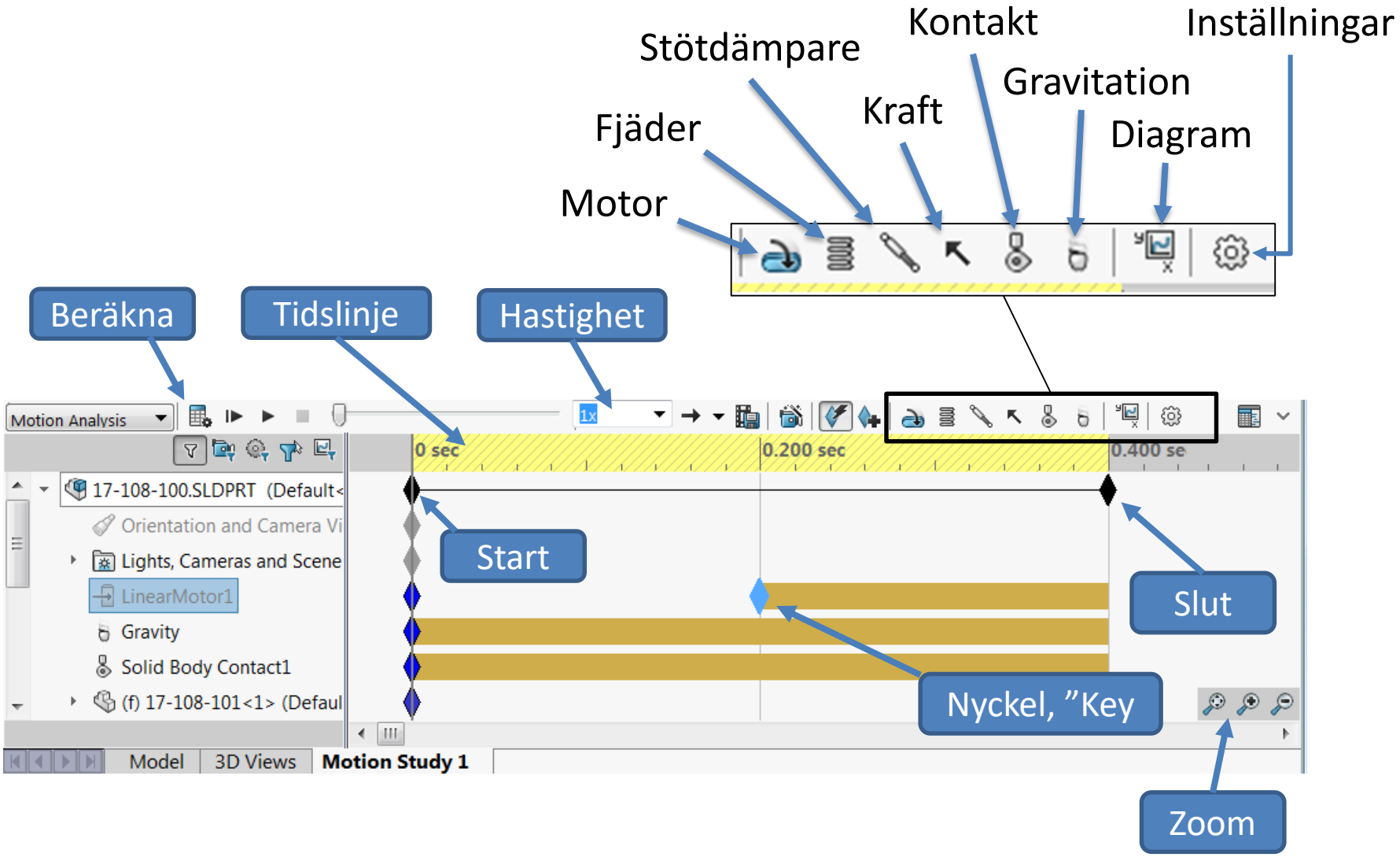
- Formsprutning

Motion add-in

- Aktivera add-in
- Byt till Motion Study
- Motion analysis



Motion add-in

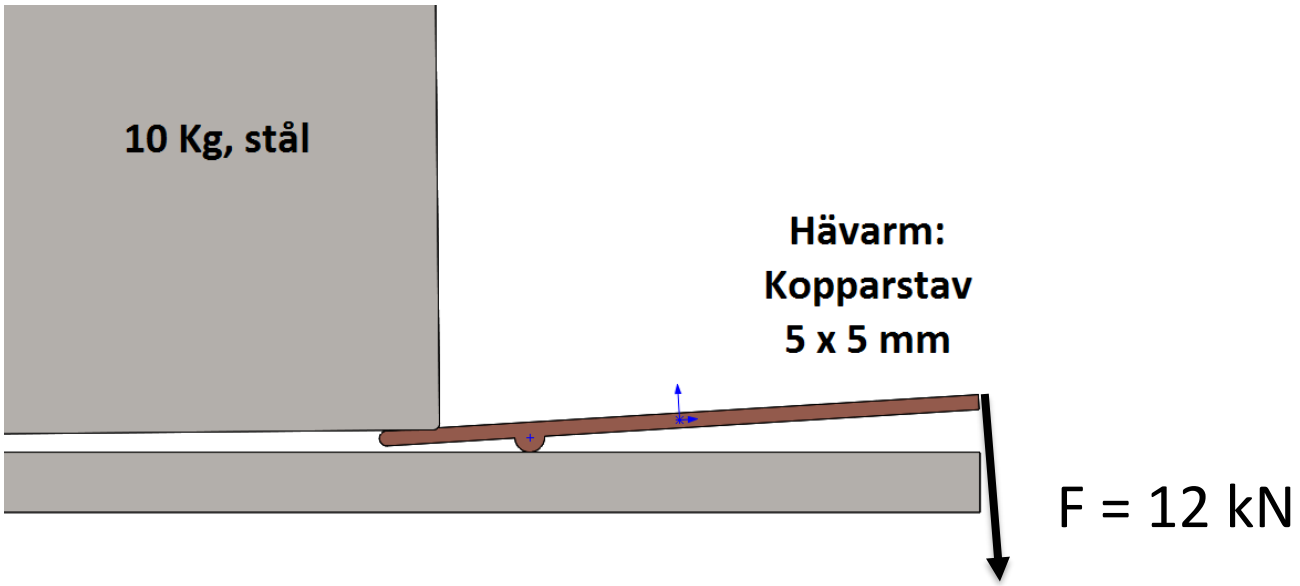


Stelkropssimulering

- En förenkling av verkligheten
- Helt stela kroppar
- ”Perfekta” situationer – ytor, krafter…
- Rimliga resultat? Reality check.
- Börja med enkla modeller - kontrollräkna

Stelkropssimulering

Exempel: Orimlig situation

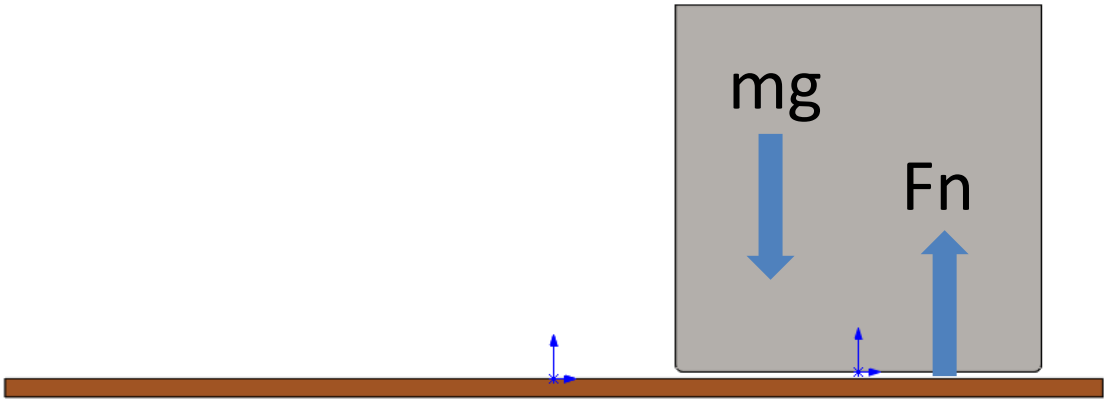


Går utmärkt att simulera

Skulle aldrig fungera i verkligheten

Övning 1

Kloss på platta

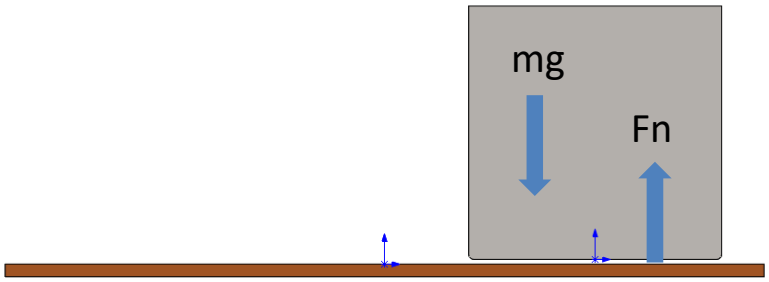


Hur får vi reda på massan?

Förväntat resultat?

Övning 1

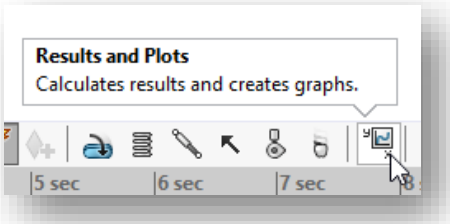
Kloss på platta

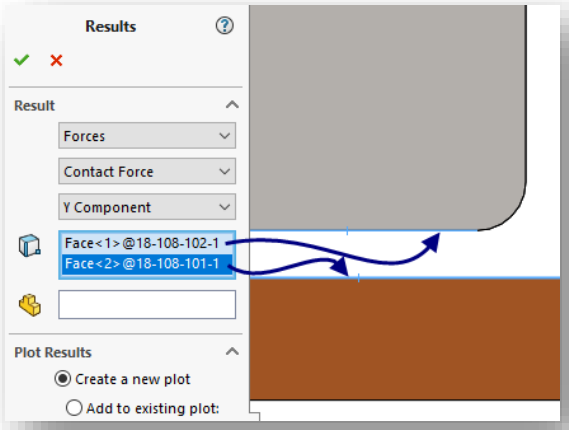


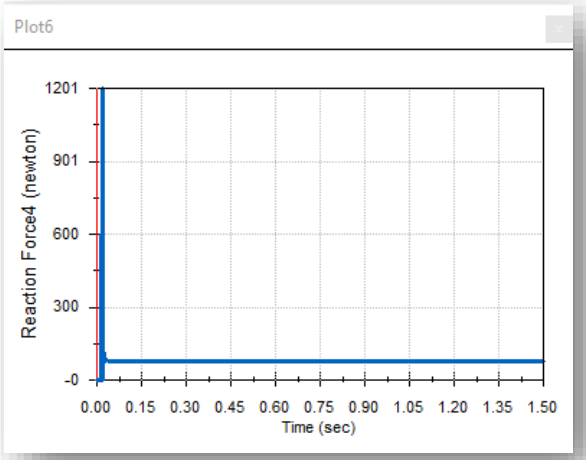
Vad behövs?

- Gravitation
- Kontaktvillkor

Skapa diagram:



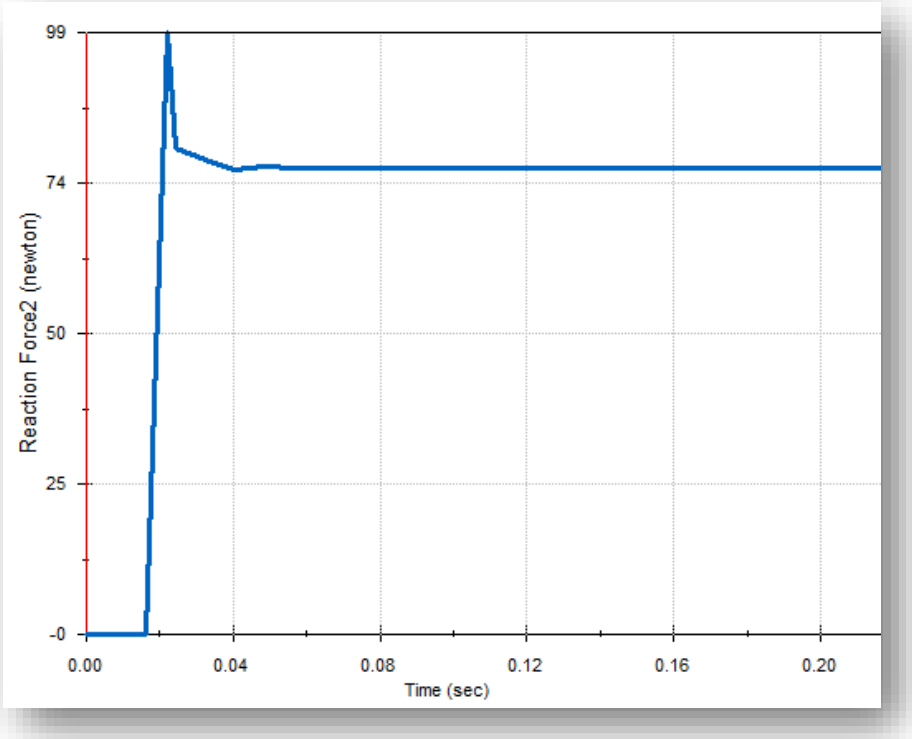




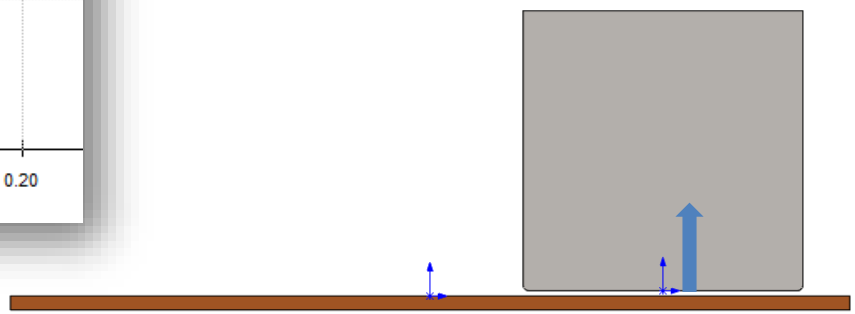
Diagram

Justering av diagrammets axlar:

Dubbelklicka på axeln



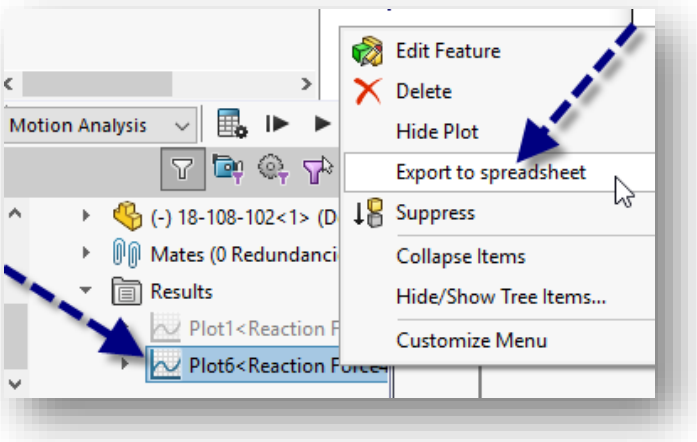
Normalkraft

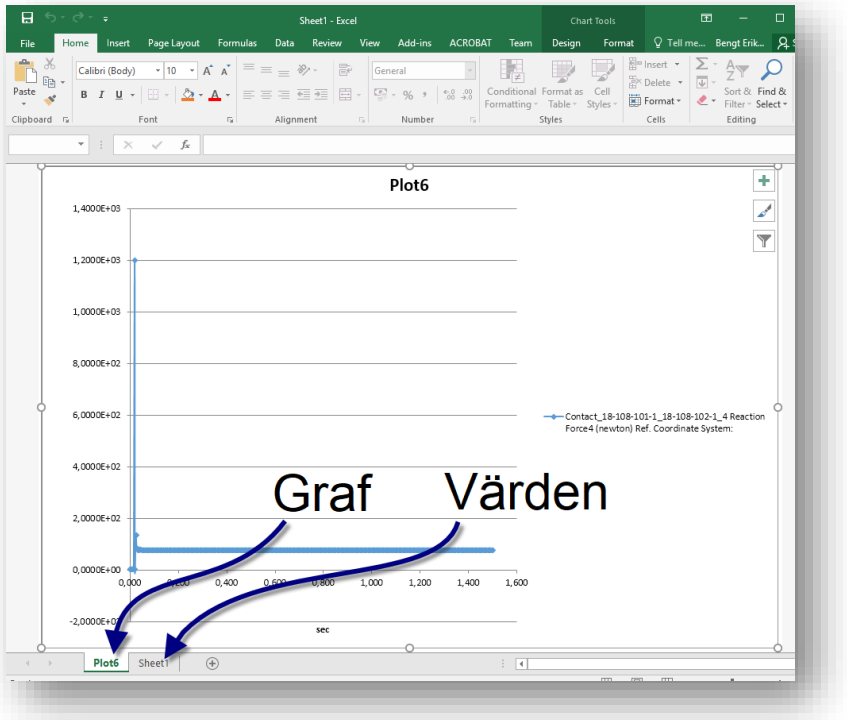


Excel

Exportera värden till Excel

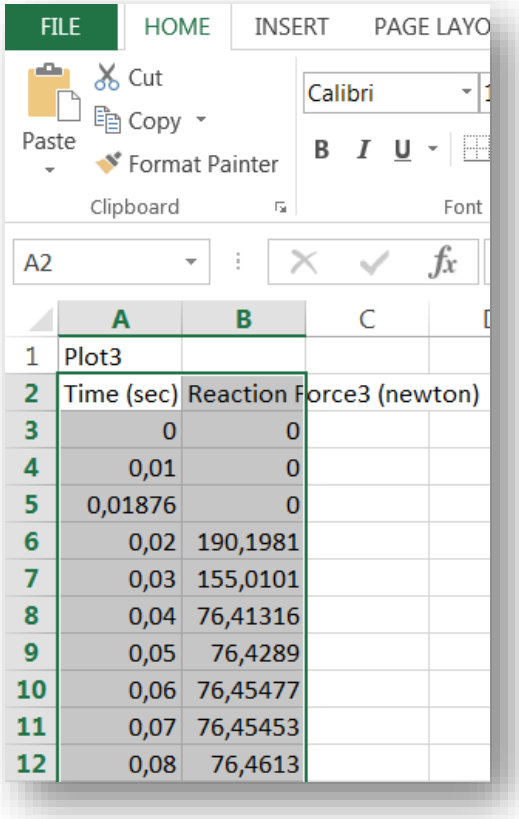
- Se till att diagrammet syns
- Högerklicka > Välj ”Export to spreadsheet”

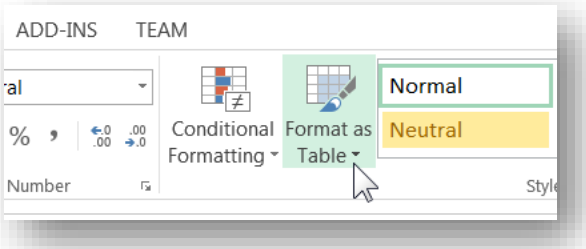


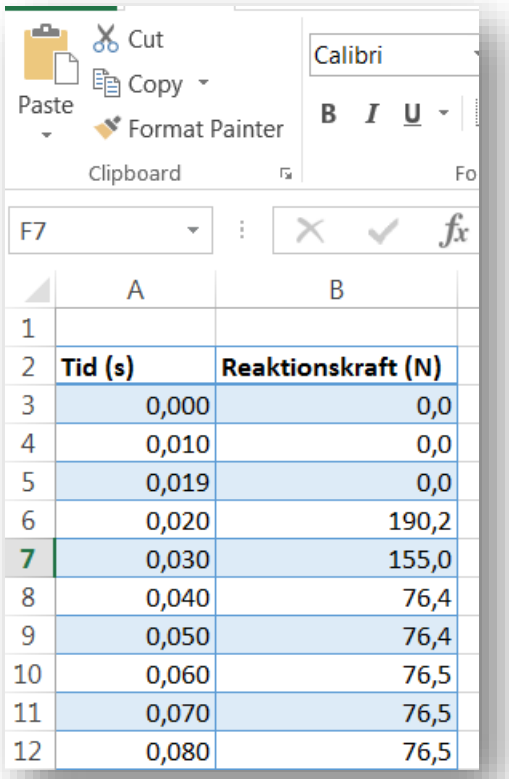


Excel

Städa; formatering, decimaler, rubriker…







FRÅGOR