

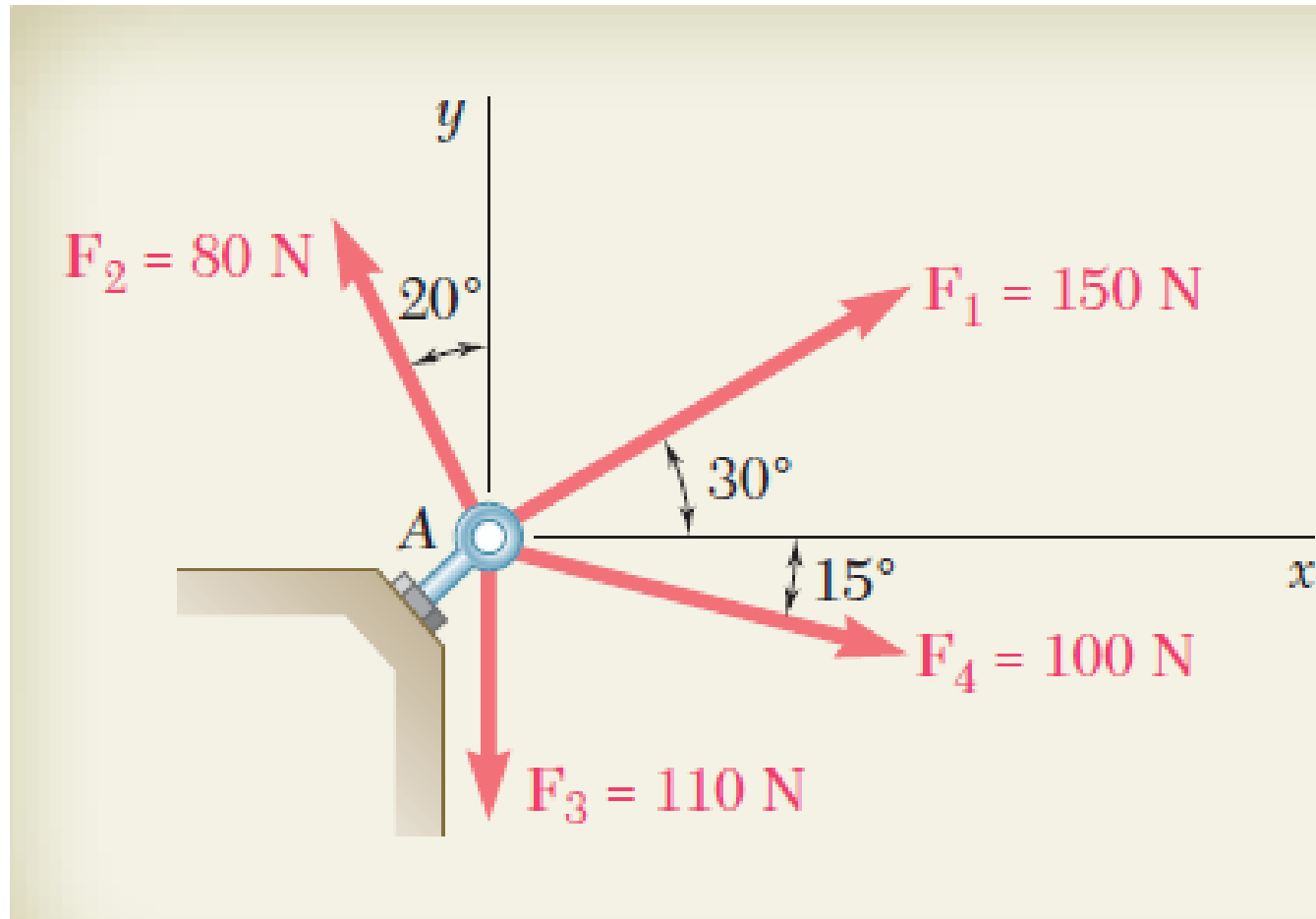
Statika Struktur

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Pokok Bahasan

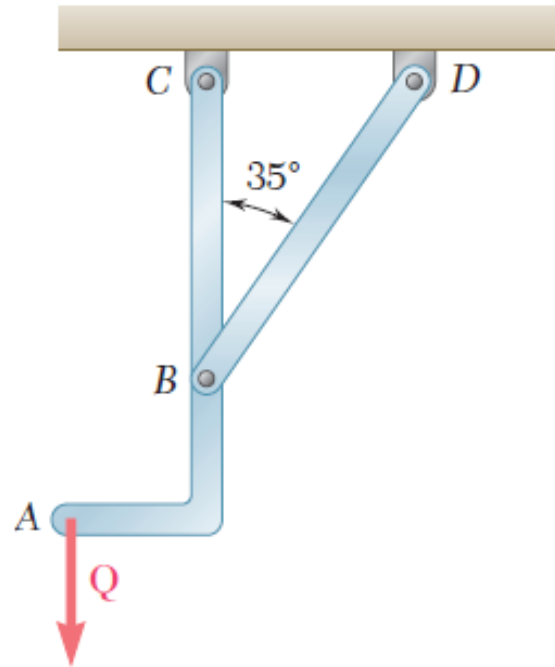
- Sistem Gaya pada bidang
- Penguraian Gaya : Grafis & Analitis

Komponen Gaya – Cont....



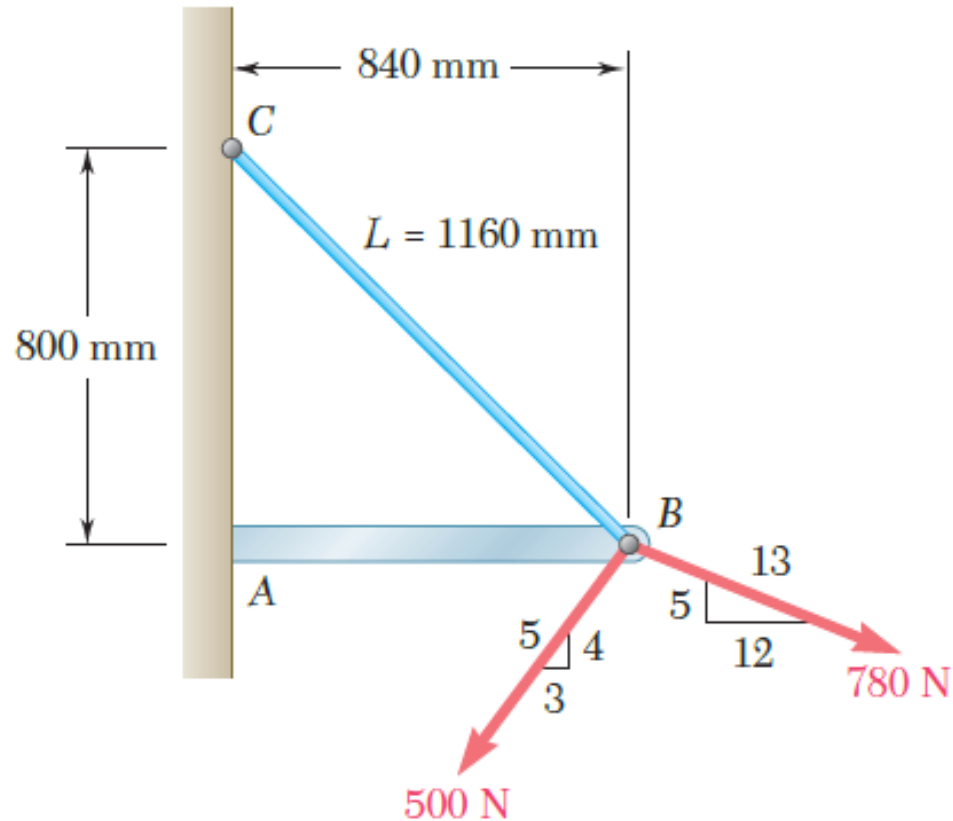
Komponen Gaya – Contoh 2

Member BD exerts on member ABC a force \mathbf{P} directed along line BD . Knowing that \mathbf{P} must have a 300-lb horizontal component, determine (a) the magnitude of the force \mathbf{P} , (b) its vertical component.



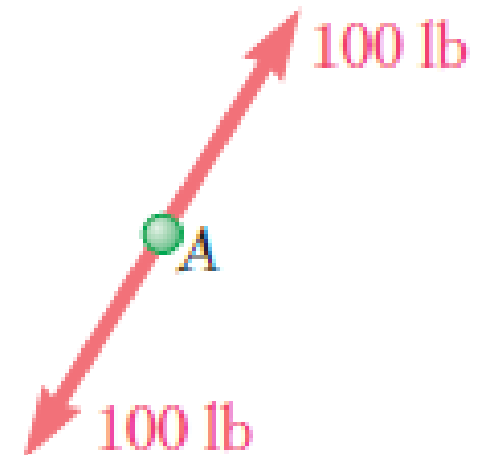
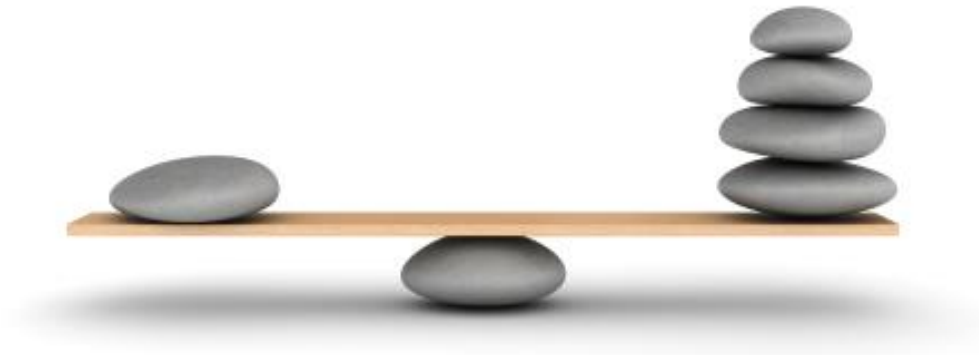
Contoh (contd..)

Knowing that the tension in cable BC is 725 N , determine the resultant of the three forces exerted at point B of beam AB .

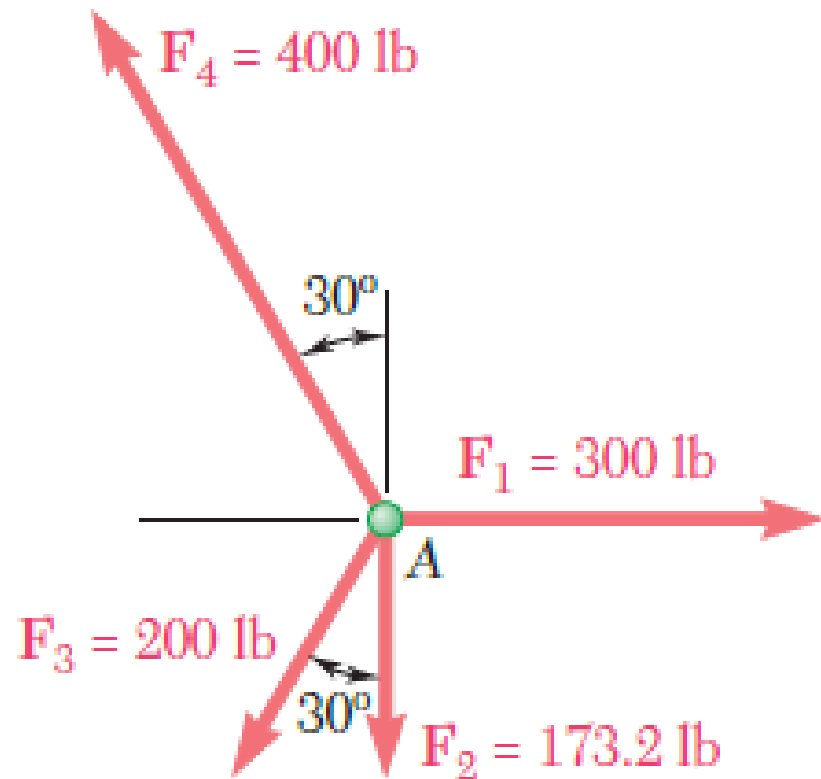


Kesetimbangan Partikel

- Pembahasan sebelum → Resultan Gaya
- Di sebuah sistem : sangat mungkin didapatkan **resultan gaya (R) = 0**
- **R=0 → Kesetimbangan**



Kesetimbangan Partikel



$$\mathbf{R} = \Sigma \mathbf{F} = 0$$

$$\Sigma F_x = 0 \quad \Sigma F_y = 0$$

Keseimbangan Partikel

Diketahui :

Massa box = 75 kg

Tentukan tegangan tali AB dan AC

