

KINETIKA LINEAR

Hukum Kinetika

- ▣ Sir Isaac Newton (Inggris)
- ▣ Hukum I Newton : objects tend to stay at rest or in uniform motion unless acted upon by an unbalanced force.
 - = Prinsip Inertia
 - Benda bergerak → cenderung untuk tetap bergerak
 - Benda diam → cenderung untuk tetap diam.
- ▣ Besar inersia adalah sama dengan massa bendanya.

- ▣ Hukum II Newton = hukum momentum = hukum acceleration
- ▣ $F = m \cdot a$
- ▣ the acceleration an object experiences is proportional to the resultant force, is in the same direction, and is inversely proportional to the mass.

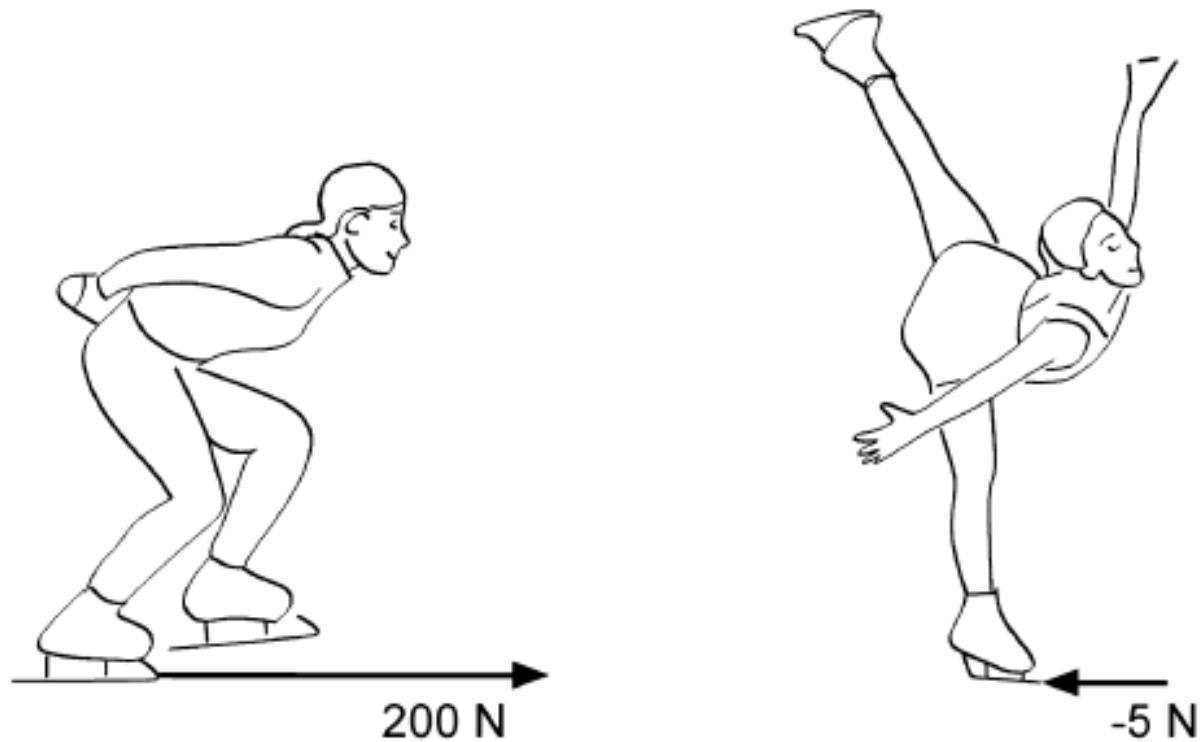


Figure 6.3. Friction forces acting on ice skaters during push-off and gliding. Newton' Second Law of Motion applied in the horizontal direction (see text) will determine the horizontal acceleration of the skater.

- ▣ Hukum III Newton : Hukum reaksi
- ▣ for every action there is an equal and opposite reaction. For every force exerted, there is an equal and opposite force being exerted.