

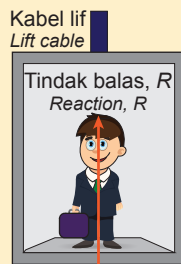


GERAKAN LIF

MOVEMENT OF LIFT

Gerakan lif Movement of lift

- (a) Lif pegun / bergerak dengan halaju malar
Lift is stationary / moving at constant velocity



Berat, mg
Weight, mg

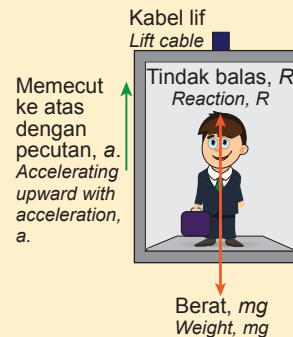
Apabila lif itu pegun atau bergerak dengan halaju malar, daya-daya yang bertindak adalah dalam keseimbangan. Maka,

Tindak balas = Berat
 $R = mg$

When the lift is stationary or moving with a constant velocity, the forces are in equilibrium. Therefore,

Reaction, = Weight
 $R = mg$

- (b) Lif memecut ke atas
Lift is accelerating upward



Daya paduan yang bertindak ke atas
 $= R - mg$.

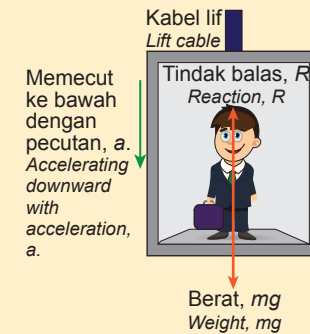
Maka,

$$R - mg = ma$$
$$R = mg + ma$$

Net force acting upward
 $= R - mg$.
Therefore,

$$R - mg = ma$$
$$R = mg + ma$$

- (c) Lif memecut ke bawah
Lift is accelerating downward



Daya paduan yang bertindak ke bawah
 $= mg - R$.

Maka,

$$mg - R = ma$$
$$R = mg - ma$$

Net force acting downward
 $= mg - R$.
Therefore,

$$mg - R = ma$$
$$R = mg - ma$$