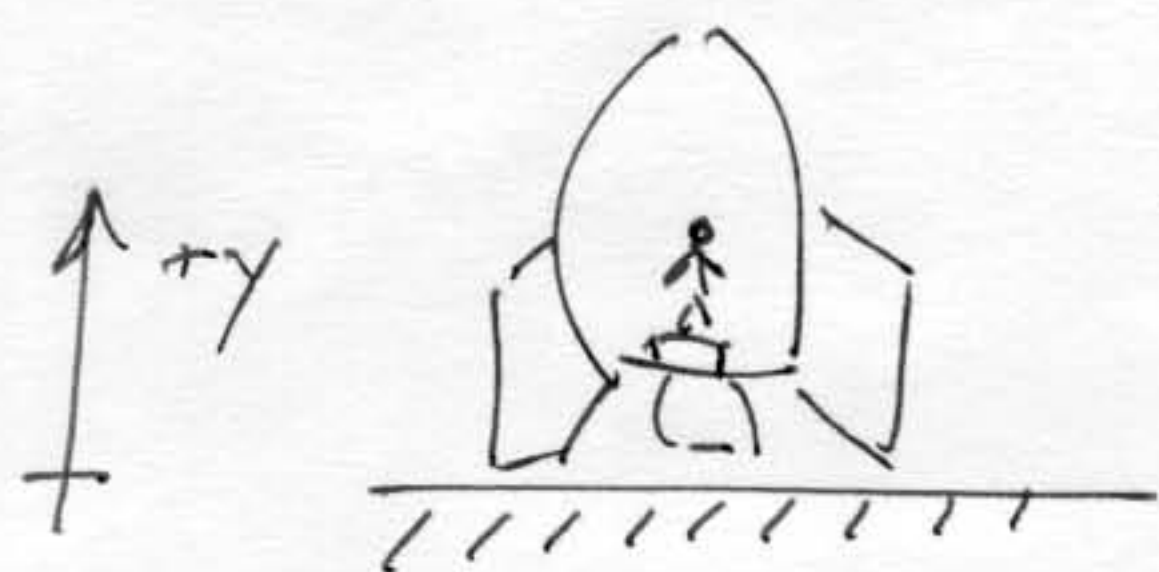


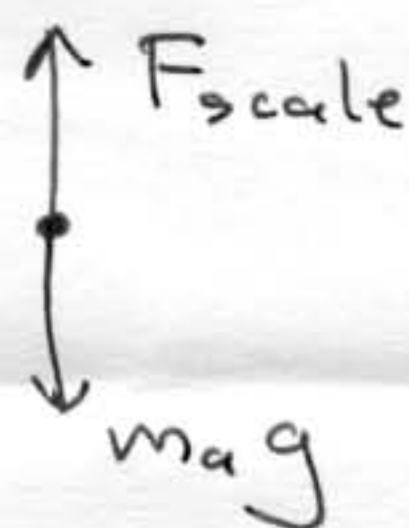
(b) Scale reads force of feet of astronaut on top of scale

N3: equals force of scale on astronaut's foot

on earth

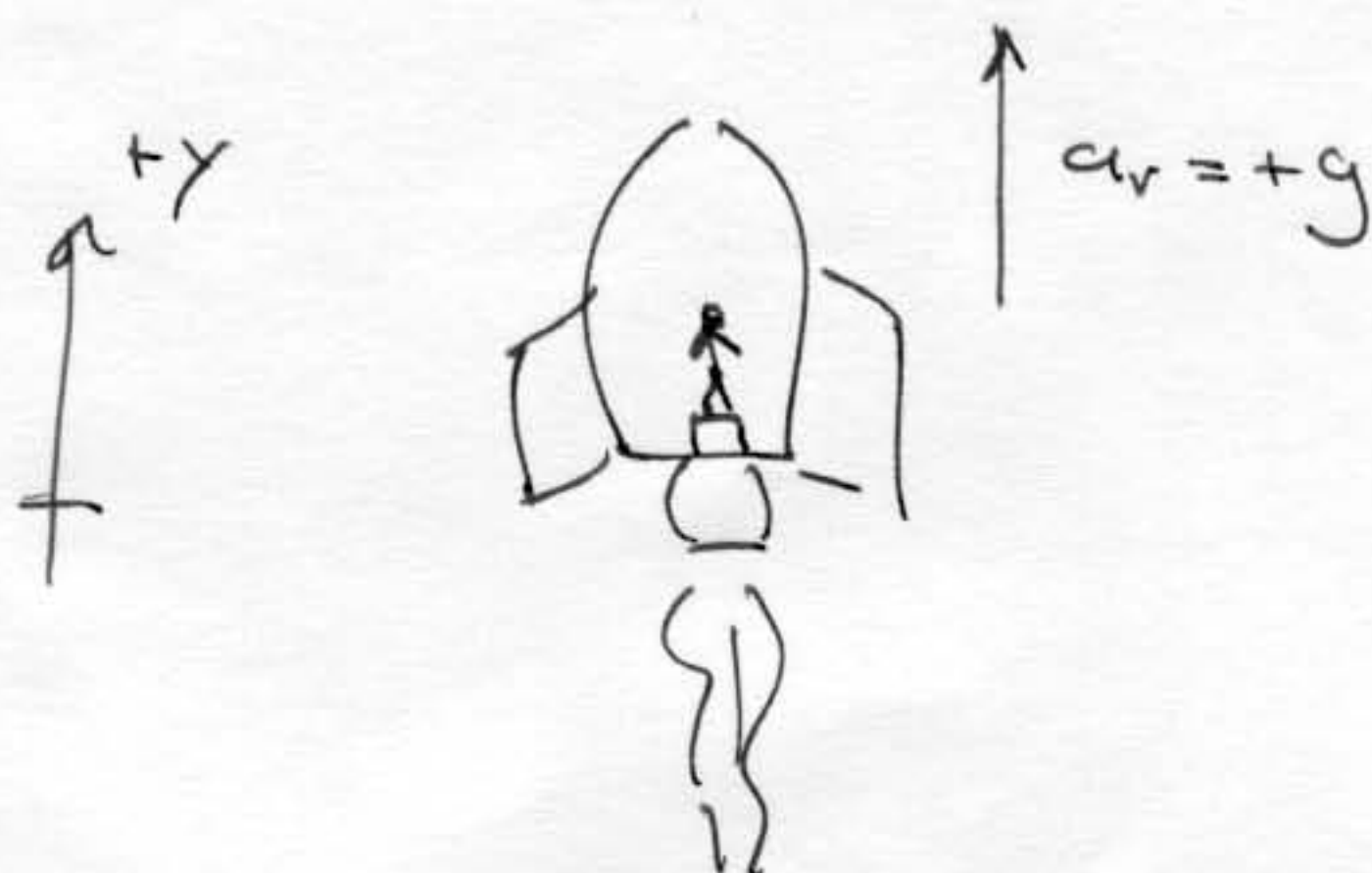


sys = astronaut

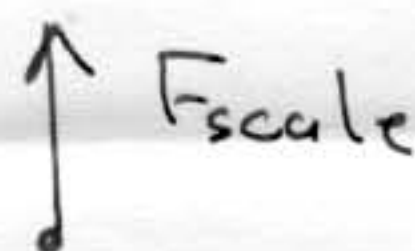


$$a_a = 0 \Rightarrow F_{scale} = mag$$

in space



sys = astronaut



$$a_a = a_r = +g$$

$$\Rightarrow F_{scale} = m_a a$$

$$F_{scale} = mag$$

same!