Fg = mass*g

Fn = Fg*cos(θ)

Ffr = μFn

Ftension = Ffr + Fg*sin(θ)

Ftow = (Ftension + mass*$a_c$)/3 ropes;

$2s_c + (s_c - s_p)$ = cons

$3a_c = a_p$

$A_c = a_p/3$