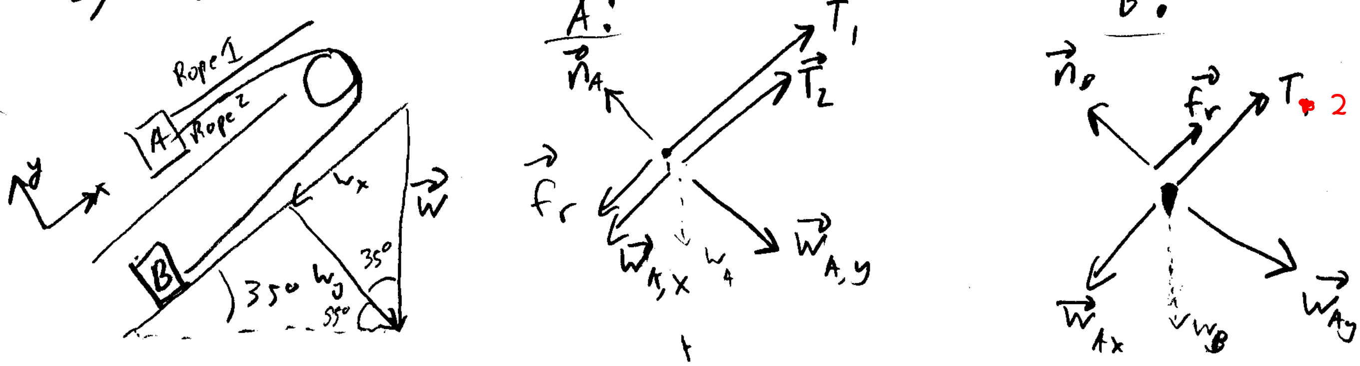
2) ~~FBD~~ $\boxed{\text{O and P}}$



From the diagram, we can see that for the weight forces $W_x = W \sin 35°$ $\quad W_y = W \cos 35°$ both are the same,

$$W_{Ax} = W_{Bx} = mg \sin 35 \qquad W_{Ay} = W_{By} = W \cos 35°$$

Let's find the forces of rolling friction: (which will be the same)

$$f_r = \mu_r n$$

From N's second $\Sigma F_{net,y} = m \cancel{a_y}^{0}$ (for both) (because they'll stay on the ramp)

$$n - W_y = 0$$

$$\Rightarrow n = \cancel{mg}\, W_y = W \cos 35 = mg \cos 35$$

So $f_r = \mu_r mg \cos 35$

Now, since $a_x = 0$ (constant speed)

$F_{net,x} = m_A a_{Ax} = 0$ $\qquad$ $F_{net,y} = m_B a_{Bx} = 0$

$T_1 + T_2 - f_r - W_{A,x} = 0$ $\qquad$ $T_2 + f_r - W_{Ax} = 0$

sub in $\qquad$ solve for T_1!

$T_2 = W_{Ax} - f_r$

$$W_{Ax} - f_r + T_1 - f_r - W_{Ax} = 0$$

$$\Rightarrow T_1 = 2 f_r = 2 \mu_r mg \cos 35 = 771 \text{ N}$$

And $T_2 = W_{Ax} - f_r = mg \sin 35 - \mu_r mg \cos 35 = 8608 \text{ N}$

$\boxed{\text{Reflect}}$ The system counterbalances the weights, so the engine only needs to overcome friction. On the other hand, the tension in the other cable is very large.