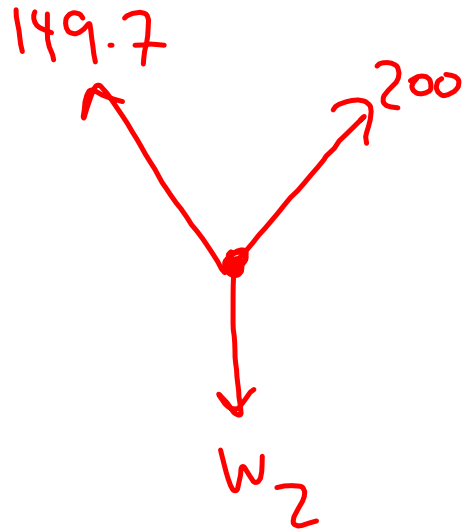
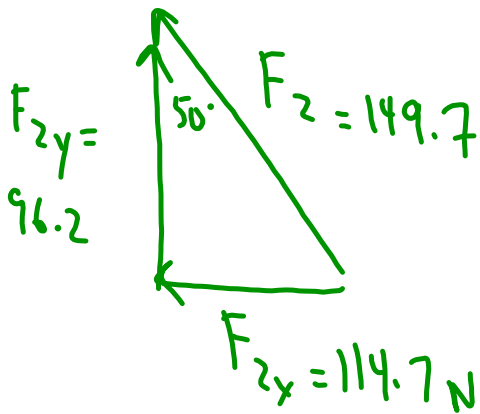
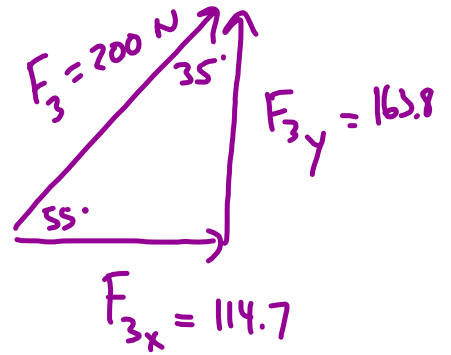
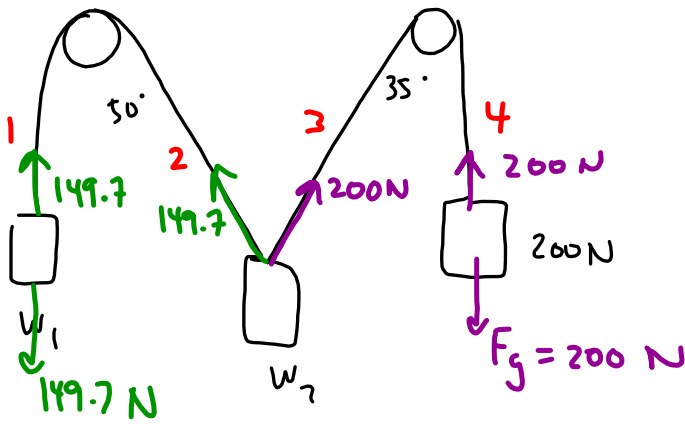
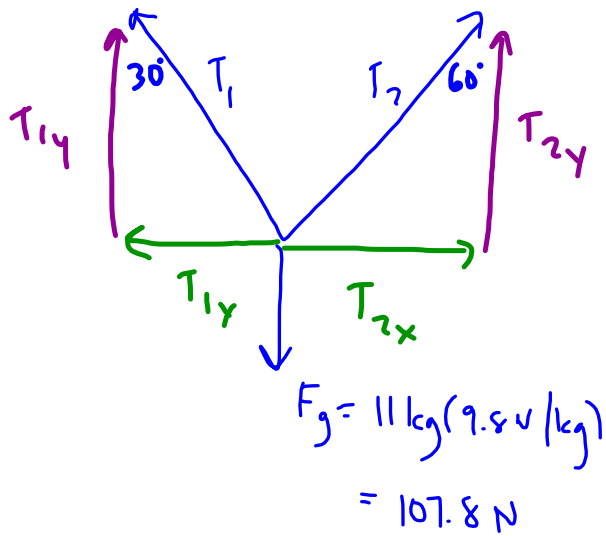


7.



$$\begin{aligned}
 W_2 &= F_{2y} + F_{3y} \\
 &= 96.2 + 163.8 \text{ N} \\
 &= 260
 \end{aligned}$$

3.



$$T_{1x} = T_{2x}$$

$$T_1 \sin 30^\circ = T_2 \sin 60^\circ$$

$$0.5T_1 = 0.87T_2$$

$$T_1 = 1.74T_2$$

$$T_{1y} + T_{2y} = 107.8$$

$$T_1 \cos 30^\circ + T_2 \cos 60^\circ = 107.8$$

$$0.87T_1 + 0.5T_2 = 107.8$$

$$0.87(1.74T_2) + 0.5T_2 = 107.8$$

⋮