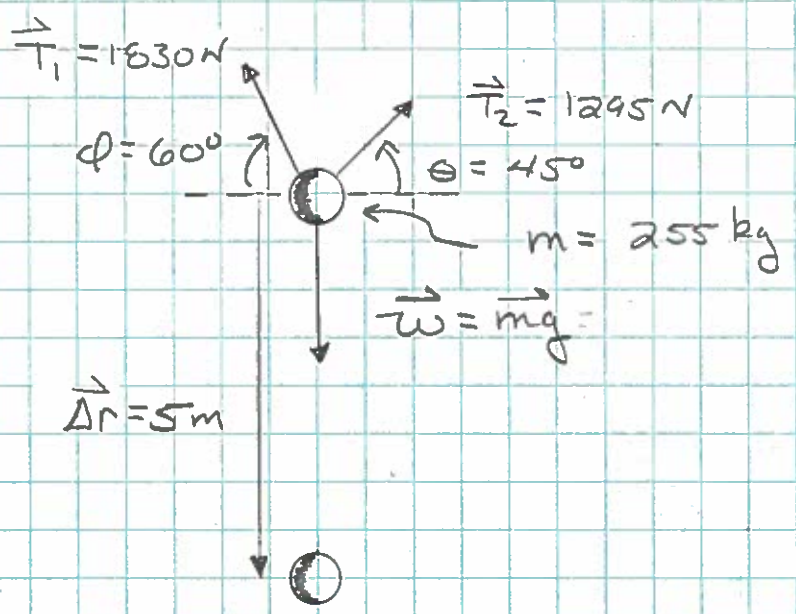

$\vec{w}$: $W = \vec{w} \cdot \Delta\vec{r} = mg\,\Delta r \cos(0°) = 12500\,J$.

$\vec{T}_1$: $W = \vec{T}_1 \cdot \Delta\vec{r} = T_1\,\Delta r \cos(150°) = -7924\,J$.

$\vec{T}_2$: $W = \vec{T}_2 \cdot \Delta\vec{r} = T_2\,\Delta r \cos(135°) = -4578\,J$

Do you notice something about these numbers?

$$W_w + W_{T_1} + W_{T_2} = W_{net} = 0$$

Why? the speed is constant, so no net energy is transferred to the piano.