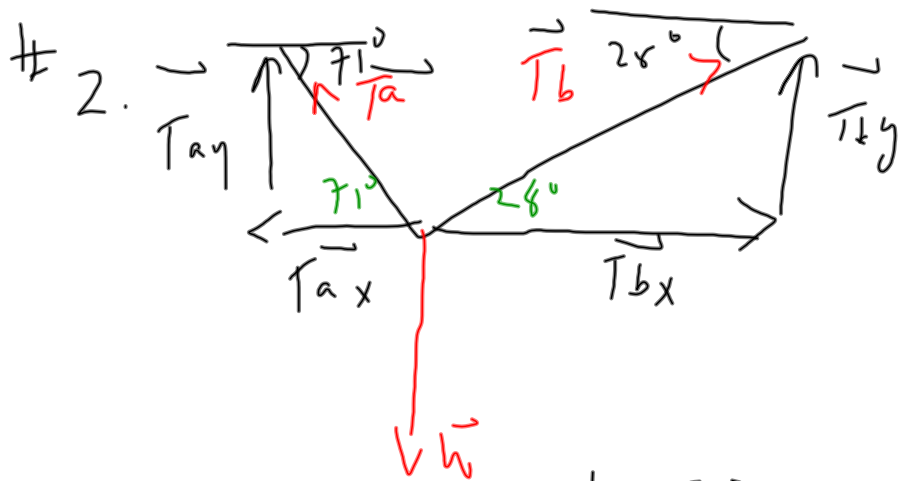


Thursday, September 12/13
Physics 122/121

1. HW - Formative -> Return
 2. Check -> Worksheet: Type II - Suspended Objects
 3. Type II Problems - More Complex
 4. [Worksheet: Type II Force Problems \(More Complex\) - HW](#)
-
5. Type III Problems - Inclined Planes, Hills and Ramps
 6. Worksheet: Sample Problems - Inclined Planes





$$F_{\text{net}y} = m\ddot{a}$$

$$+T_{Ay} + T_{By} - W = 0$$

$$T_A \sin 71^\circ + T_B \sin 28^\circ - mg = 0$$

System of equations

$$F_{\text{net}x} = m\ddot{a}$$

$$-T_{Ax} + T_{Bx} = 0$$

$$-T_A \cos 71^\circ + T_B \cos 28^\circ = 0$$

$$T_B \cos 28^\circ = T_A \cos 71^\circ$$

$$T_A = \frac{T_B \cos 28^\circ}{\cos 71^\circ}$$

$$T_B \cos 28^\circ \cdot \frac{\sin 71^\circ}{\cos 71^\circ} + T_B \sin 28^\circ - mg = 0$$

$$T_B \cos 28^\circ \tan 71^\circ + T_B \sin 28^\circ - mg = 0$$

$$T_B (\cos 28^\circ \tan 71^\circ + \sin 28^\circ) = mg$$

$$T_B = \frac{mg}{\cos 28^\circ \tan 71^\circ + \sin 28^\circ}$$

$$T_b = \underline{\hspace{2cm}}$$

Attachments

Course Outline - Physics 112 1 (2013).doc

Course Outline - Science 10 NS (2013).doc

Course Outline - Physics 122 1 (2013).doc

Course Outline - Intro to Env Sci 120 (2013).doc