Feynman, Richard

1. [1pt] A pulley with mass $M_p$ and a radius $R_p$ is attached to the ceiling and rotates with no friction about its pivot. Mass $M_2$ is larger than mass $m_1$. The quantities $T_1$, and $g$ are the magnitudes of the various tensions and the gravitational acceleration.

Select T-True, F-False, G-Greater than, L-Less than, E-Equal to. If the first is T, the second L and the rest E, enter TLEEEE).

A) $T_2$ is $\ldots\ldots\ldots M_2 g$.
B) $T_2$ is $\ldots\ldots\ldots T_1$
C) The acceleration of $M_2$ is $\ldots\ldots$ that of $m_1$.
D) The C.M. of $M_p + M_1 + M_2$ does not accelerate.
E) $T_3$ is $\ldots\ldots m_1 g + M_2 g + M_p g$.
F) $T_3$ is $\ldots\ldots T_1 + T_2$