Physics club.
Homework 2.

Please try to solve the following problem.
A girl of mass 40 kg is staying in the elevator. Find the force which the elevator floor applies to the girl's feet. There are 3 cases:
a) The elevator is staying.
b) The elevator is accelerating up and the acceleration is numerically equal to the acceleration due to gravity $\mathrm{g}=9.8 \mathrm{~m} / \mathrm{s}^{2}$.
c) The elevator is accelerating down and the acceleration is numerically equal to the acceleration due to gravity $\mathrm{g}=9.8 \mathrm{~m} / \mathrm{s}^{2}$.

Make a picture with force diagram.


