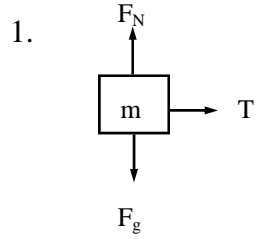


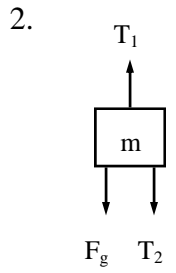
HW 4.2 - Free Body Diagrams & Net Force Equations

Write the correct net force equations (both x and y directions) for the following free body diagrams.



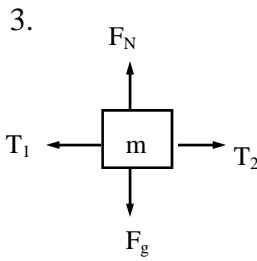
ΣF_x

ΣF_y



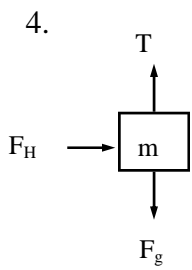
ΣF_x

ΣF_y



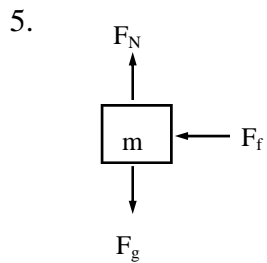
ΣF_x

ΣF_y



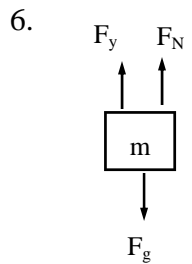
ΣF_x

ΣF_y



ΣF_x

ΣF_y



ΣF_x

ΣF_y

Draw COMPLETE (show ALL forces) Free Body Diagrams for the following net force equations:

1. $T - T_2 = ma$ (Is it x or y direction?)



2. $T - F_g = ma$



3. $F_N - F_g - F_y = ma$



4. $F_N + F_y - F_g = ma$



5. $F_a - F_{fk} = ma$



6. $T_1 - T_2 - F_g = ma$

