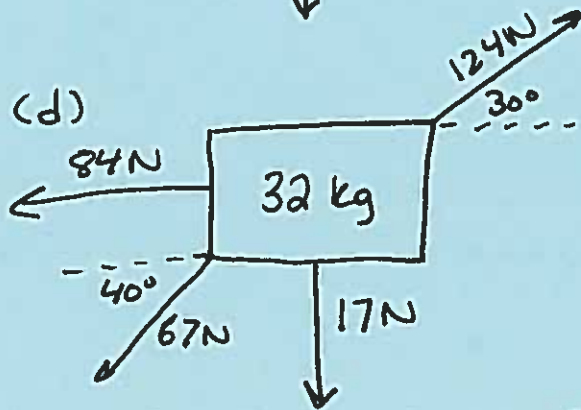
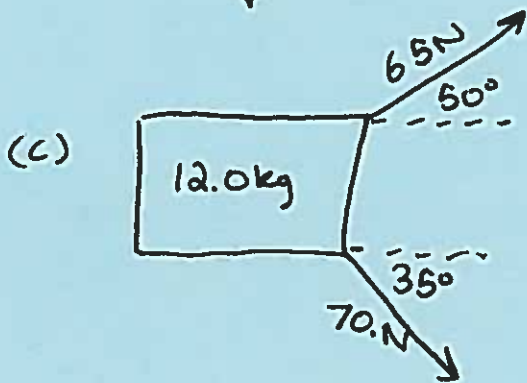
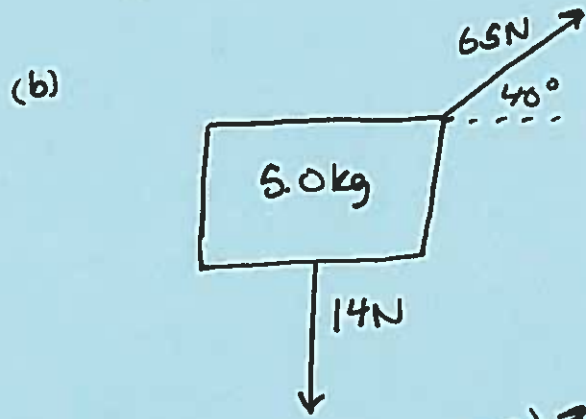
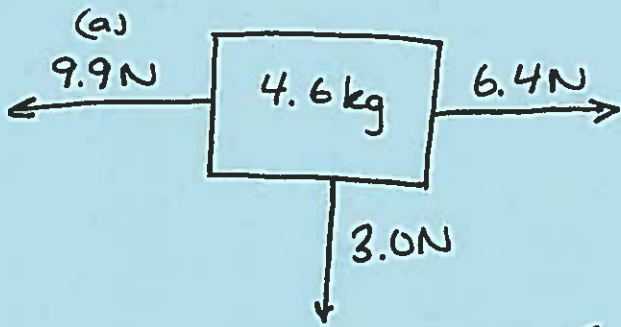


Physics 2204 worksheet 2

1. Find \vec{a} if $F = 14\text{N}$ & $m = 9.4\text{kg}$
2. A car accelerates at 4.2m/s^2 . If the engine puts out $4.6 \times 10^3\text{N}$ of force, find the car's mass.
3. Calculate \vec{a} for the following:



4. Calculate the tension in an elevator cable that is accelerating upwards at 2.7m/s^2 if the car ~~weighs~~ has a mass of 725kg
5. Calculate \vec{a} and \vec{F}_T in the following examples assuming no friction:

