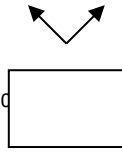


Physics Chpt 6 rev 6

1. What is μ for a 45 kg box pulled along the horizontal by a 76 N force (directed along the horizontal) at a constant velocity?
2. What is its (box from #1) acceleration if μ is 0.33?
3. What is μ for a 45 kg box sliding down a 34° ramp at a constant speed?
4. What would μ be for the ramp in #3 if the acceleration was 0.33 m/s^2 ?
5. What force is needed to accelerate a 33 kg box along the horizontal at 1.33 m/s if μ is 0.22 and the force is directed along the horizontal?
6. What acceleration does a 33 kg box have if it is pulled along the horizontal by a 98 N force directed at 34° above the horizontal?

7. What is the equilibrant force?

The angle between the forces is 85°



and the box is 124 kg.

8. Find the resultant using the sum of the "x" and "y" of a 56 N force 23° and a 77N force at 345° ?