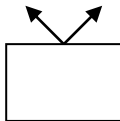


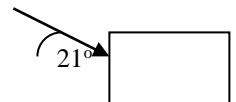
Chpt 6 rev 3

1. What is μ for a 45 kg box pulled along the horizontal by a 760 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^2 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° ?
9. What is μ if a 34.0 kg box is pushed across a horizontal floor by a force of 135 N directed downward at an angle of 21.0° from the horizontal?



10. What would the acceleration of the box be in #9 if μ were reduced to 0.111?