PHYSICS 11

Translational Equilibrium

Determine whether a given object is in translational equilibrium.

1.	L. A very heavy box of books with mass of 24.0 kg is pushed on a leve	
	a force of 50.0 N. The box is also pulled with force of 80.0 N [R]. The	e force of friction is 6.5 N.
The	a object is	and it will

_____to______.

2.	A 0.5-kg bucket filled with 8.0 L of water is pulled by two separate ropes. One rope force of 130.0 N right at ang angle of 30° above horizontal, while the other rope put of 94.7 N left 38° above horizontal.	
	object is	and it will
	to	

3.	A 10.802-kg object is being pulled by three ropes. One rope pulls with 84.0 N the horizontal, the other rope pulls with 120 N left 40° above the horizontal a pulls only 13 N right.	
Tho	object is	and it will
	toto	

List contact forces you know:	
List field forces you know:	
How do contact forces differ from field forces and how are they s	imilar?
Differences:	Similarities:
Give three examples that demonstrate that friction is useful.	