

3.1 Review Questions

1. An ant is sitting on a cannoli which is being carried on a tray by a waiter on a cruise ship. The ant is moving south at 1 cm/s relative to the surface of the cannoli. The cannoli is at rest relative to the tray. The tray is at rest relative to the waiter. The waiter is moving north at 90 cm/s relative to the ship. The ship is moving south at 500 cm/s relative to the water. And the water is moving at 50 cm/s south relative to a nearby island. How fast is the ant moving relative to the island?

2. How can you be traveling 55 mph and 0 mph at the same time?