1. Sam and Eric are playing catch on the top of a train that is moving at 24 m/s East. What is the velocity of the baseball relative to a stationary observer when:



a. Eric throws the ball at 16 m/s East  
b. Sam throws the ball at 18 m/s West

1. A receiver is catching a ball thrown by the QB at 6 m/s. What is the relative velocity of the receiver and the ball when the receiver is:  
   a. running away from the QB at 5 m/s.  
   b. running towards the QB at 4 m/s.

