15 m/s

35°

1. The soccer ball is kicked from and lands at the same height.
   a) Solve for Vx and Vy.
   b) How long was the ball in flight?
   c) What horizontal distance did the ball travel?
   d) What was it's maximum height above the launch point?

18 m/s

60°

2. The football is thrown from and caught at the same height.
   a) Solve for Vx and Vy.
   b) How long was the ball in flight?
   c) What horizontal distance did the ball travel?
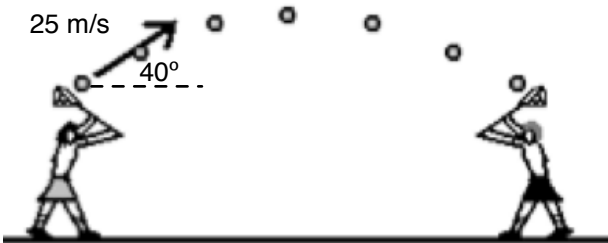   d) What was it's maximum height above the launch point?

35 m/s
30°

1. The baseball is hit from and caught at the same height.
   a) Resolve the initial velocity into components.
   b) How long was the ball in flight?
   c) What horizontal distance did the ball travel?
   d) How high above the start height did the ball get?

25 m/s
40°

2. The lacrosse ball is thrown from and caught at the same height.
   a) Resolve the initial velocity into components.
   b) How long was the ball in flight?
   c) What horizontal distance did the ball travel?
   d) How high above the start height did the ball get?