

Problems discussed in the videos:

Videos (1) – (3)

You're windsurfing at 7.3 m/s when a wind gust hits, accelerating your sailboard at 0.82 m/s^2 at a 60° angle to your original direction. If the gust lasts 8.7 s, what is the board's net displacement during this time?

Videos (5) – (6)

A raging flood has washed away a section of highway, creating a gash 1.7 m deep. A car moving at 31 m/s goes straight over the edge. How far from the edge of the washout does it land?