Wednesday Reading Assessment: Unit 2

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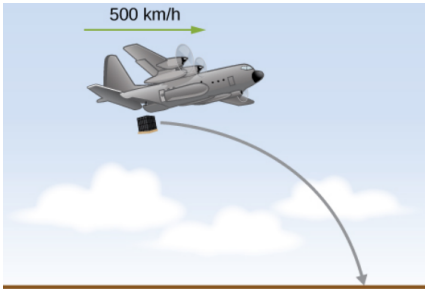
1 Chapter 4 - Kinematics in Two and Three Dimensions



1. An airplane flying horizontally with a speed of 140 m/s at a height of 800 m drops a crate of supplies. If the parachute fails to open, how far in front of the release point does the crate hit the ground?

2. Suppose the airplane in the preceding problem instead launches the crate horizontally in its direction of motion at a speed of 100 m/s in addition to the speed of the plane. Where will the crate land?