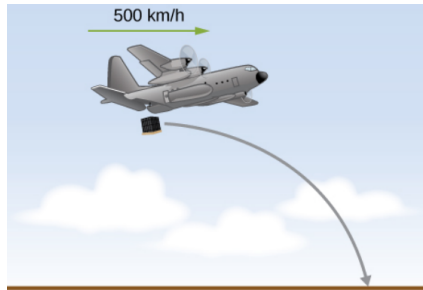


# Wednesday Reading Assessment: Unit 2

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September 25, 2019

## 1 Chapter 4 - Kinematics in Two and Three Dimensions



1. An airplane flying horizontally with a speed of  $140 \text{ m/s}$  at a height of  $800 \text{ m}$  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  $100 \text{ m/s}$  in addition to the speed of the plane. Where will the crate land?