

Unit 1: Systems of Linear Equations

Day 10: Solving Problems Day 2

Distance/Time/Speed Problems

Today we will....

- model real-life problems using linear systems
- use elimination or substitution to solve real-life problems

Example 1:

Flying into the wind, an airliner takes 4 hours to go 960 km. The same plane flying with the wind takes only 3 hours to make the same trip. Find the speed of the wind and the speed of the plane.

Example 2:

Two cruise ships are sailing toward each other from Caribbean islands that are 264 km apart. One ship travels 4 km faster than the other. If they both started at the same time, and meet after 6 hours, how fast is each ship travelling?

Practice:

Pg. 52 # 19, 24

Pg. 93 # 14

Pg. 103 # 17