

Name _____

Homework 4
Section 1.5

1. (6) A kayaker travels downstream 15 miles and then travels back upstream to a point which is 1 mile short of where he originally departed from (that is, he travels 15 miles downstream and 14 miles back upstream). The entire trip takes 3 hours. In still water (no current) the kayaker paddles at a rate of 10 miles per hour. How fast is the current of the stream?

2. (7) A rectangular swimming pool is to be built with an area of 2200 square feet, surrounded by a deck of a constant width. The rectangular plot of land on which the swimming pool and deck are to be built is 55 feet wide and 70 feet long. How wide is the deck surrounding the pool?



3. (7) Sam and Shirley own a bakery. Shirley can make a wedding cake in 2 hours less than it takes Sam to make a wedding cake. If they work together, Sam and Shirley can make 5 wedding cakes in 12 hours. How long does it take Sam to complete one wedding cake by himself?