

In Class/Homework 1-31-07

GENERALIZE how to find a constant rate of change between two points:

1) A function with a constant rate of change has a graph that passes through the points $(-2, 4)$ and $(6, 6)$. Find the rate of change.

2) A function with a constant rate of change has a graph that passes through the points $(6, -1)$ and $(4, 3)$. Find the rate of change

3) A function with a constant rate of change has a graph that passes through the points $(1, -3)$ and $(4, 6)$.

a) Find the rate of change

b) Define a function with the constant rate of change found above that passes through the given points

4) Define a function with a constant rate of change whose graph passes through the points $(-5, 8)$ and $(-1, -2)$

5) Say hi to Kim and Allison! Okay, let's say that Kim's in the race and 5 minutes past the checkpoint she has ridden 3 miles. 7.5 minutes past the checkpoint she has ridden 6 miles. Assuming she rides at a constant rate, define a function that models this situation.