Word problems

1. At 12 pm, two buses leave a town heading in *opposite directions.* One bus is traveling at 50 mph and the other at 60 mph.

   (a) How far has each bus travelled when the time is 3 pm? How far apart are the two buses?

   (b) How far apart they are when the time is 4:30 pm?

   (c) What time will be when they are 550 miles apart?

2. At 1:30 pm, two cars leave a town heading in *the same direction.* One car is traveling at 54 mph and the other at 66 mph.

   (a) How far has each bus travelled when the time is 3 pm? How far apart are the two buses?

(b) What time will be when the two cars are 60 miles apart?

3. Towns A and B are 460 miles apart. At 1 am a car leaves town A heading towards town B traveling at 55 mph and another car leaves town B heading towards town A at 60 mph.

(a) How far has each car travelled when the time is 2 am? How far apart are the two cars?

(b) What time will the two cars meet?