Quiz 10

Name:

1. When a circular metal plate is heated, its radius increases by .01 cm/min. At what rate is the plate's area increasing when the radius is 50 cm?

2. Cars A and B are traveling along perpendicular straight-line roads; each car is moving toward the point where the roads intersect. Car A is moving at 60 mph, and car B is moving at 66 mph. At what rate is the distance between the cars changing when car A is 5 miles from the intersection point and car B is 12 miles from the intersection point?