

Prof. S. Brick
Spring '08

Calculus I; Quiz 9

Math 125
section 501

0. Print your name: _____

Closed book and closed notes

1. A balloon is rising straight up at a constant speed of 5 feet per second. A boy is cycling along a straight road at a speed of 15 feet per second. When he passes under the balloon, it is 45 feet above him. How fast is the distance between the boy and the balloon increasing 3 seconds later ? (For the sake of simplicity, ignore the height of the boy.)