MTH 132 Quiz # 5	Spring 99–Sec. 20 Corso	Name: ____________________ ____________________	Please, be neat and show all your work; circle your answer.

1. Find the absolute maximum and minimum of

$$g(x) = 27x - x^3$$

if $-1 \leq x \leq 3$.

pts: /5

2. A balloon is rising vertically above a level, straight road at a constant rate of 1 ft/sec. Just when the balloon is 65 ft above the ground, a bicycle moving at a constant rate of 17 ft/sec passes under it. How fast is the distance between the bicycle and the balloon increasing 3 sec later?

grade: /10

pts: /5