

## Lesson4

word problem

1. In a certain suburb of Los Angeles, the level of ozone  $L(t)$  at 6:00 A.M is 0.28 ppm. A 12-hour weather forecast predicts that the ozone level  $t$  hours later will be changing at the rate of

$$L'(t) = \frac{0.16 - 0.02t}{\sqrt{36 + 16t - t^2}}$$

ppm per hour.

Express the ozone level  $L(t)$  as a function of  $t$ .

When does the peak ozone level occur? What is the peak level?