



Quiz 8.7 – Modeling Accumulated Change with the TI-84

1. (1 pt) [alfredLibrary/AUCI/chapter8/lesson7/quiz/definiteint.pg](#)
Use your calculator to evaluate the integral.

$$\int_1^2 \sqrt{t} \ln t \, dt = \underline{\hspace{2cm}}$$

2. (1 pt) [alfredLibrary/AUCI/chapter8/lesson7/quiz/rect1pet.pg](#)
Suppose an object is moving along a line with velocity
 $v(t) = t^2 - 4t + 3$ miles per hour.

Use your calculator to find the displacement and the total distance traveled by the object during the time interval $[0, 8]$.

Displacement = _____ miles

Total distance traveled = _____ miles