

Calculus Quiz

Your Name:

Show all work.

1. The temperature in the Mojave desert t hours after sunset is given by:

$$T(t) = 20 + \frac{104}{t+2}$$

Find the average temperature for the 8 hours after sunset.

2. Find the area of the region bounded by:

$$y = e^{x/3}, \quad y = e^{x/5}, \quad x = 1, \quad x = 5$$

3. Find the area of the region bounded by:

$$x = \csc^2 y, \quad x = 5 - y$$