

Lesson #74 Answers

1. e^{-1}

1. 2

2. $\frac{\pi}{2} [e^2 - 1]$

2. $\frac{1}{4}$

3. e^{-2}

3. $-\frac{1}{2}$

4. $2\pi \int_0^1 x(e^x - 1) dx$

4. (a) $-\frac{1}{4}$

(b) $y - 1 = \frac{1}{5}(x - 2)$

5. $3 - 2\sqrt{2}$

6. $\pi [35 + \ln(\frac{1}{36})]$

7. $\pi \ln 4$