8.2 - Area, Surface of Revolution

Calculus II

1. If the infinite curve $y=e^{-7x}, x\geq 0$, is rotated about the x-axis, find the area of the resulting surface.

2. Set up the integral for the area of the surface obtained by rotating the given curve about the specified axis, then solve.

 $xy = 5y^2 - 1, 1 \le y \le 4$, x-axis

