Find the following integrals, and *check your answers!!* (The first two are the last two from Friday; if you already did those, move on to #3.)

1.
$$\int \frac{e^{\sqrt{x+1}}}{\sqrt{x+1}} dx \qquad (u = \sqrt{x+1})$$

2.
$$\int_{2}^{5} \frac{1}{x \ln(x)} dx$$
 ($u = \ln(x)$)

$$3. \int \sin(x)e^{\cos(x)} dx$$

4.
$$\int x^2 \sec(x^3) \tan(x^3) dx$$

5.
$$\int e^x \cos(e^x) \ dx$$

6.
$$\int \sin(x)\cos(x) \ dx$$

$$7. \int e^x e^{2x} dx$$

$$8. \int \frac{(\sec(x))^2}{\tan(x)} dx$$

9.
$$\int x\sqrt{x-1} dx$$
 Hint: Let $u=x-1$

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