

- 1) $\int x\sqrt{x+1}\,dx$
- 2) $\int \sin 2\theta \, e^{\cos(2\theta)} \, d\theta$
- 3) $\int \tan^{-1} x \, dx$ [Consider how we found $\int \ln x \, dx$] 4) $\int ze^{z+2} \, dz$ 5) $\int \frac{\sin(t^{0.6})}{t^{0.4}} \, dt$
- 6) $\int x \ln(x^2) dx$

7)
$$\int \frac{x}{e^{x}} dx$$

8)
$$\int \frac{(\ln x)^{2}}{x} dx$$

9)
$$\int x^{7} \ln x dx$$