$$\int_{1}^{mower} \frac{1}{u} \, du$$

Problems 2-16 are great review.

Problem 2.

$$\int_{-8}^{-1} \left(\frac{2}{x^{1/3}} + 4x \right) \, dx$$

Problem 3.

$$\int \frac{\sqrt{r} - 5}{\sqrt{r}} \, dr$$

$$\int s(\sqrt{s}+1)\,ds$$

Problem 5.

$$\int_{\pi/6}^{\pi/3} \sin(2x) \, dx$$

$$\int x^3 e^{x^4} \, dx$$

$$\int (2x-1)\sin(4x)\,dx$$

$$\int \frac{\sec \theta \tan \theta}{\sqrt{\sec \theta + 1}} \, d\theta$$

$$\int \ln x^3 \, dx$$

$$\int \frac{1}{t^2 - 6t + 10} \, dt$$

$$\int_{-1}^{1} \frac{1}{x^3} dx$$

$$\int \frac{8x^2 - 2x + 3}{2x - 1} \, dx$$

$$\int x^2 e^{2x} \, dx$$

$$\int_{e}^{e^2} \frac{1}{x \ln x} \, dx$$

$$\int_0^4 \sqrt{3x+4} \, dx$$

$$\int \frac{x+1}{x(2x+1)} \, dx$$