

Some Section 8.1 Even Homework Solutions

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

$$u = t^2 - t + 2, du = (2t - 1) dt$$

$$\text{Use } \int \frac{du}{u}.$$

$$10. \int \frac{-2x}{\sqrt{x^2 - 4}} dx$$

$$u = x^2 - 4, du = 2x dx, n = -\frac{1}{2}$$

$$\text{Use } \int u^n du.$$

$$8. \int \frac{2}{(2t - 1)^2 + 4} dt$$

$$u = 2t - 1, du = 2 dt, a = 2$$

$$\text{Use } \int \frac{du}{u^2 + a^2}.$$