

## Section 7.6 – Integration Using Tables

Many scientists and mathematicians rely on tables of integrals and computer algebra systems (Maple, Mathematica, MatLab, etc) to evaluate various integrals.

In building in our integration strategies, we want to know how to utilize a table of integrals.

**Example 1:** Use a table of integrals to evaluate the following integrals.

A.  $\int x\sqrt{7+5x} dx$

B.  $\int \frac{4}{2t-7t^2} dt$

C.  $\int \frac{y^2}{\sqrt{9y^2-25}} dy$

$$\text{D. } \int_0^{1/4} \tan^5 \pi\theta \, d\theta$$