Tuesday- this worksheet and MC from file 1,3,4,5,6
Wed- book P. 342 #25-43 odd p. 343 #53-59, 71,73,74,75,
Thurs – multiple choice #1107-1113

Warm up

$$\int \frac{\sec^2(7x+4)}{\tan(7x+4)}\,dx \qquad\qquad \int \frac{x^3 - 3x^2 + 5}{x - 3}\,dx$$

Not all are u-sub

1  $\int x^3(2x^4 + 5)^3\,dx$

4  $\int \frac{(\ln x)^3}{x}\,dx$

2  $\int \frac{5}{x^5}\,dx$

5  $\int \frac{x^4 - 3x^3 + 2}{x}\,dx$

3  $\int \frac{x}{\sqrt{9 - x^2}}\,dx$

6.  $\int \sqrt{x^5}\,dx$

**Express each definite integral in terms of $u$, but do not evaluate.**

1)  $\displaystyle\int_{-1}^{0} \frac{8x}{(4x^2 + 1)^2}\,dx; \; u = 4x^2 + 1$

2)  $\displaystyle\int_{0}^{1} -12x^2(4x^3 - 1)^3\,dx; \; u = 4x^3 - 1$

3)  $\displaystyle\int_{-1}^{2} 6x(x^2 - 1)^2\,dx; \; u = x^2 - 1$

4)  $\displaystyle\int_{0}^{1} \frac{24x}{(4x^2 + 4)^2}\,dx; \; u = 4x^2 + 4$