

Math 181
Fall 2009

Name _____

Homework #7
Due Wednesday September 23
No late papers accepted! No excuses!

Evaluate each integral.

1. $\int \frac{3x+2}{\sqrt{1-x^2}} dx$

2. $\int \tan^4 x dx$

3. $\int \frac{-2x + 4}{(x^2 + 1)(x - 1)^2} dx$

4. $\int e^{5x} \cos(3x) dx$

5. $\int \frac{x^2}{\sqrt{9-x^2}} dx$

6. $\int \sin^7 x \cos^3 x dx$

$$7. \int \frac{2x^3 - 4x^2 - x - 3}{x^2 - 2x - 3} dx$$

8. $\int \frac{x}{\sqrt{x^2 + 4x + 8}} dx$