

MAT 182 Calculus II-2012 Fall
Worksheet 1 - Review

Name _____

Complete the following questions, and show your work clearly, and circle your final answer.

Evaluate the integrals..

1) $\int \left(\frac{1}{x^5} - x^5 - \frac{1}{10} \right) dx$

1) _____

2) $\int \sin(4x - 3) dx$

2) _____

3) $\int \frac{\sin t}{(3 + \cos t)^3} dt$

3) _____

4) $\int \frac{x dx}{(7x^2 + 3)^5}$

4) _____

Evaluate the definite integrals.

5) $\int_0^{7\pi/4} \tan \frac{x}{7} dx$

5) _____

6) $\int_0^1 \sqrt{x+9} dx$

6) _____

Answer Key

Testname: UNTITLED1

$$1) \frac{-1}{4x^4} - \frac{x^6}{6} - \frac{x}{10} + C$$

$$2) -\frac{1}{4} \cos(4x - 3) + C$$

$$3) \frac{1}{2(3 + \cos t)^2} + C$$

$$4) -\frac{1}{56}(7x^2 + 3)^{-4} + C$$

$$5) \frac{7 \ln 2}{2}$$

$$6) \frac{20}{3}\sqrt{10} - 18$$