

Answers to Review for Test 2 (up to trig sub)

1.  $\frac{1}{2}$    2.  $\frac{\pi}{4}$    3.  $\frac{\pi}{8} - \frac{1}{4} \ln 2$    4.  $\frac{1}{2}x^2 + x + \ln|x+1| + C$    5.  $-\ln|\cos e| + \ln|\cos 1|$

6.  $\frac{1}{3}x^2 \sin 3x + \frac{2x}{9} \cos 3x - \frac{2}{27} \sin 3x + C$    7.  $\frac{1}{3} \sec^3 x + C$

8.  $-\frac{1}{x} \ln|x| - \frac{1}{x} + C$    9.  $-\ln|\cos x| - \frac{1}{2} \sin^2 x + C$    10.  $-\frac{x}{4\sqrt{x^2-4}} + C$