Quiz 2: Fundamental Theorem and the Indefinite Integral

January 23, 2013

	Kal	C	
	Name: Name:	Section	1:
	Instructions: Be sure to write no both questions (second one is on the		Circle or box your final answer. Answ
5pt	1. Evaluate $\int_{\pi/2}^{\pi} 3\cos x dx$.		
,	use FTC part		plugging in bounds +3
	1 3 cosxdx	= 38inx ==	3 Sin TT - 3 Sin = 2
	J10/2	antiderivative	3(0)-3(1)=-3
		+ 7	5(0) 5(1)

5 pt

2. Evaluate $\int (x+4)(2x+1) dx$.

$$\int (x+4)(2x+1)dx = \int (2x^2+8x+x+4)dx$$

$$= \int (2x^2+9x+4)dx$$

$$= \frac{2x^3}{3} + \frac{9x^2}{2} + 4x + C$$