

Ch 5 calculus test

Multiple Choice

Integration Indefinite

polynomials

trig

(simplify then integrate)
+ trig

$$\frac{16 + 20}{2} = 8 + 10$$

Initial conditions that ~~at~~ ~~at~~ let you find C
(solve for C)

$s(t)$ $s'(t)$ $s''(t)$ ~~_____~~

Picture ~~at~~ match with integral.

Fundamental Theorem of calculus

$$\int_a^b f(x) dx = F(b) - F(a)$$

Problems with integrals using a graph

Substitution

integration with absolute value

trig (like #5)

Substitution sheet (like #6)

13 Question

ab mark

Bonus (2 marks)

summation

Written

① and Fundamental theorem of calculus (2)

② Substitution like # 3 (from W.S)

$$\frac{d}{dx} \int_0^{x^3} \sin t dt = 3x^2 \sin x^3$$

(3) Graph Question like #8 from 5.4 notes

(4)

t	0	50	100	150	200	250	300
$v(t)$	10	20	30	60	70	60	80

Riemann Sum like the distance assignment out of 5

(5) total distance travelled $\int |v(t)| dt$
out of 18