Your TA:	Seat $\#$:		_		
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Math 105 TOPICS IN MATHEMATICS <u>MOCK</u>QUIZ – XI

April 20 (Mon), 2015

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Instructor: Yasuyuki Kachi

Line #: 52920.

ID # : <u>Name</u> :

 \star This is not an actual quiz. The actual "Quiz – XI" will be discreetly similar to this sheet. This sheet is to help you prepare for that quiz. The timing of the quiz will be either Wednesday, April 22nd or Friday, April 24th.

[I] (4pts) (1)
$$\frac{d}{dx}x^2 =$$
 (2) $\frac{d}{dx}3x^8 =$.

[II] (4pts) (1)
$$\frac{d}{dx} \left(2x^3 + 3x - 5 \right) =$$

(2)
$$\frac{d}{dx}\left(1 + \frac{1}{2!}x^2 + \frac{1}{4!}x^4 + \frac{1}{6!}x^6 + \frac{1}{8!}x^8\right)$$

=

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[III] (4pts)
$$\int 6x^5 dx = x^6 + C.$$

This means



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