

Your TA: _____

Seat #: -

Math 105 TOPICS IN MATHEMATICS

QUIZ – XI (In-Class)

April 22 (Wed), 2015

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ID #: _____

Name: _____

[I] (4pts) (1) $\frac{d}{dx} x^3 =$ _____ . (2) $\frac{d}{dx} 6x^5 =$ _____ .

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

(2) $\frac{d}{dx} \left(\frac{1}{1!}x + \frac{1}{3!}x^3 + \frac{1}{5!}x^5 + \frac{1}{7!}x^7 \right)$
= _____ .

[III] (4pts) $\int 8x^7 dx = x^8 + C.$

This means

“An antiderivative of is ” .

