## Long Quiz No. 1 Answer Key

Total Score: 100

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## Note: Less 1 point for every wrong term

1) 
$$\int (8x^5 - 5x^4 + 12x^2 - 16x + 21) dx$$

Solution:

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$$\int 8x^5 dx - \int 5x^4 dx + \int 12x^2 dx - \int 16x dx + \int 21 dx$$

$$\int (1 + 2x \sin 3x) \frac{1}{2} \cos 3x dx$$

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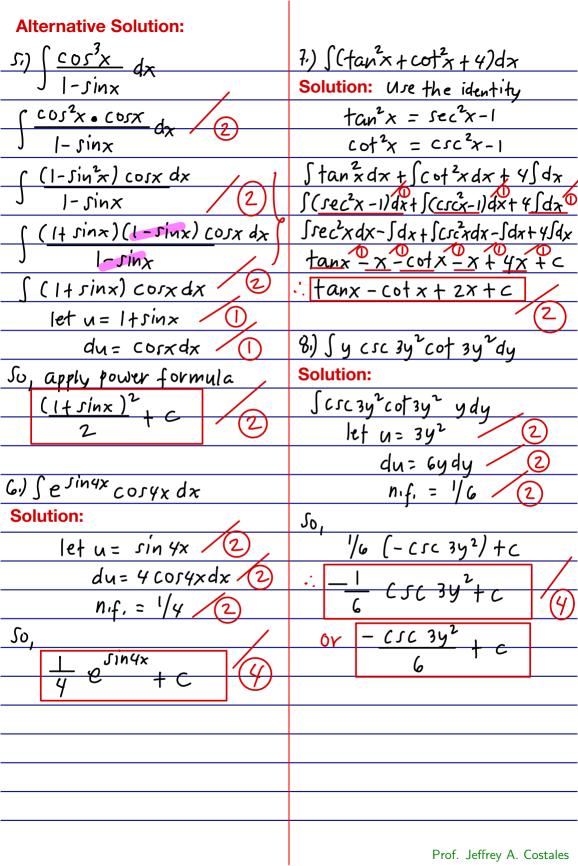
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$$\int (1 + 2x \sin 3x)$$

Prof. Jeffrey A. Costales



$$\frac{10) \int \sin x \sin(\cos x) dx}{\sin(\cos x) dx}$$
Solution:
$$\int \sin(\cos x) \sin x dx$$

$$lef \quad y = \cos x dx \quad 2$$

$$dy = -\sin x dx \quad 2$$

$$\pi_f = -1 \quad 2$$

$$\int_0$$

$$-1 \left[-\cos(\cos x)\right] + c$$

$$\therefore \cos(\cos x) + c$$

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**Solution:** 

So.

let u= 5+2e3x 2 du= 6e3x dx 2

nif. = 1/6 .