


Name: _____

Instructions: Show work and put a  around your final answer.


April 25, 2013

1. $\int_0^2 (3x - 4x^3) \, dx =$

2. $\int_{-\pi/2}^{\pi/2} \cos(x) \, dx =$

3. $\int \frac{1}{x^2} \sqrt{2 - \frac{1}{x}} \, dx =$

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1. $\int_0^9 \sqrt{x} \, dx =$

2. $\int_{-1}^1 (x^2 + x + 1) \, dx =$

3. $\int \sin^6(\pi x) \cos(\pi x) \, dx =$

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1. $\int_1^{e^2} \frac{1}{x} dx =$

2. $\int_1^2 \left(1 + \frac{1}{x^2}\right) dx =$

3. $\int \sin(x)e^{\cos(x)} dx =$

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1. $\int_0^{\pi/3} \sec^2(x) dx =$

2. $\int_1^2 x \left(x + \frac{1}{x}\right) dx =$

3. $\int x\sqrt{1-x^2} dx =$