

Name: _____

MATH 200 – QUIZ 13 ♪

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

April 18, 2013

1. $\sum_{k=1}^5 (3 + 2k) =$

2. Suppose that $f(x)$ is a function for which $\int_1^5 f(x) dx = 3$ and $\int_1^7 f(x) dx = -6$. Find $\int_5^7 f(x) dx$.

3. Write the integral that finds area under the curve $y = \sin^2(x)$ from $x = 0$ to $x = \pi$.
Do not compute the integral.

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1. $\sum_{k=1}^4 (8 - 2k) =$

2. Suppose that $f(x)$ is a function for which $\int_2^5 f(x) dx = 4$ and $\int_2^8 f(x) dx = 9$. Find $\int_5^8 f(x) dx$.

3. Write the definite integral that finds area under the curve $y = e^x + 2x$ from $x = 1$ to $x = 4$.
Do not compute the integral.

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1. $\sum_{k=1}^4 (2k - 4) =$

2. Suppose that $f(x)$ is a function for which $\int_2^5 f(x) dx = 7$ and $\int_2^8 f(x) dx = 8$. Find $\int_5^8 f(x) dx$.

3. Write the definite integral that finds area under the curve $y = \sqrt{\sin(x)}$ from $x = 0$ to $x = \pi$.
Do not compute the integral.

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1. $\sum_{k=1}^4 (k^2 + 2) =$

2. Suppose that $f(x)$ is a function for which $\int_0^5 f(x) dx = -7$ and $\int_0^6 f(x) dx = 9$. Find $\int_5^6 f(x) dx$.

3. Write the definite integral that finds area under the curve $y = 2e^{\cos x}$ from $x = 1$ to $x = 4$.
Do not compute the integral.