

Quiz on Chapter 5. Just as with the midterm this quiz was short and easily Aced. I'm averaging just over 90% on my quizzes for this course but this is my best work on a quiz thus far in this class.

Michael Roebuck 12/7/14 7:44 PM

Review: Chapter 5 Quiz Overview

Question 10: 1 of 1 pt Test Score: 100% (1 of 1 pt)

Evaluate  $\int_0^1 x \sin\left(\frac{x}{8}\right) dx$ .

$\int_0^1 x \sin\left(\frac{x}{8}\right) dx = 38 \sin\left(\frac{1}{8}\right) - 8x \cos\left(\frac{x}{8}\right) + C$   
 (Use C as an arbitrary constant.)

Michael Roebuck 12/7/14 7:45 PM

Review: Chapter 5 Quiz Overview

Question 11: 1 of 1 pt Test Score: 100% (1 of 1 pt)

Evaluate  $\int_0^{2\pi} 9x^2 \sin\left(\frac{x}{4}\right) dx$ .

$\int_0^{2\pi} 9x^2 \sin\left(\frac{x}{4}\right) dx = 332x - 3024$   
 (Type an exact answer, using  $x$  as needed.)

Michael Roebuck 12/7/14 7:46 PM

Review: Chapter 5 Quiz Overview

Question 12: 1 of 1 pt Test Score: 100% (1 of 1 pt)

Find the area of the region enclosed by the x-axis and the curve  $y = 10 \sin x$  for

(a)  $0 \leq x \leq \pi$       (b)  $0 \leq x \leq 2\pi$       (c)  $0 \leq x \leq 2\pi$

(a) The area under the curve on the region  $0 \leq x \leq \pi$  is  $20$ .  
 (Type an exact answer, using  $x$  as needed.)

(b) The area under the curve on the region  $0 \leq x \leq 2\pi$  is  $40$ .  
 (Type an exact answer, using  $x$  as needed.)

(c) The area under the curve on the region  $0 \leq x \leq 2\pi$  is  $40$ .  
 (Type an exact answer, using  $x$  as needed.)

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Review: Chapter 5 Quiz Overview

Question 13: 1 of 1 pt Test Score: 100% (1 of 1 pt)

Evaluate the integral.

$\int_{-\pi/2}^{\pi/2} \sqrt{1 - \cos^2 x} dx$

$\int_{-\pi/2}^{\pi/2} \sqrt{1 - \cos^2 x} dx = \pi$   
 (Simplify your answer, including any radicals. Use integers or fractions for any numbers in the expression.)

Michael Roebuck 12/7/14 7:47 PM

Review: Chapter 5 Quiz Overview

Question 14: 1 of 1 pt Test Score: 100% (1 of 1 pt)

Evaluate the integral.

$\int_{-\pi/2}^{\pi/2} \sin^2(x) dx$

$\int_{-\pi/2}^{\pi/2} \sin^2(x) dx = \frac{\pi}{2}$   
 (Type an exact answer in terms of  $\pi$ .)

## Review: Chapter 5 Quiz

Overview

Question Score: 1 of 1 pt

Test Score: 100% (1 of 1 pt)

Evaluate  $\int \sqrt{19-x^2} dx$ .Choose the correct evaluation of the integral  $\int \sqrt{19-x^2} dx$ .

- $\text{None}^{-1} \frac{x}{14} + \sqrt{190-x^2} + C$
- $\text{None}^{-1} \frac{x}{14} + \frac{5}{2} \sqrt{190-x^2} + C$
- $\text{None}^{-1} \frac{x}{14} + \frac{5}{2} \sqrt{190-x^2} + C$
- $\text{None}^{-1} \frac{x}{14} + \frac{5}{2} \sqrt{190-x^2} + C$

## Review: Chapter 5 Quiz

Overview

Question Score: 1 of 1 pt

Test Score: 100% (1 of 1 pt)

Evaluate the integral.

$$\int \frac{181 dx}{x^2 \sqrt{121-x^2}}$$

$$\int \frac{181 dx}{x^2 \sqrt{121-x^2}} = \frac{18 \sqrt{121-x^2}}{11} + C$$

(Type an exact answer, using radicals as needed. Use C as the arbitrary constant.)

## Review: Chapter 5 Quiz

Overview

Question Score: 1 of 1 pt

Test Score: 100% (1 of 1 pt)

Expand the quotient by partial fractions.

$$\frac{x+7}{(x+2)^2}$$

Choose the correct answer below.

- $\frac{x+7}{(x+2)^2} = \frac{2}{x+2} + \frac{1}{(x+2)^2}$
- $\frac{x+7}{(x+2)^2} = \frac{9}{x+2} + \frac{1}{(x+2)^2}$
- $\frac{x+7}{(x+2)^2} = \frac{1}{x+2} + \frac{2}{(x+2)^2}$
- $\frac{x+7}{(x+2)^2} = \frac{7}{x+2} + \frac{1}{(x+2)^2}$

## Review: Chapter 5 Quiz

Overview

Question Score: 1 of 1 pt

Test Score: 100% (1 of 1 pt)

Expand the quotient by partial fractions.

$$\frac{x+33}{x^2(x-1)}$$

Choose the correct answer below.

- $\frac{x+33}{x^2(x-1)} = \frac{11}{x} + \frac{10}{x^2} + \frac{11}{x-1}$
- $\frac{x+33}{x^2(x-1)} = \frac{11}{x} + \frac{18}{x^2} + \frac{11}{x-1}$
- $\frac{x+33}{x^2(x-1)} = \frac{11}{x^2} + \frac{11}{x+33} + \frac{18}{x-1}$
- $\frac{x+33}{x^2(x-1)} = \frac{17}{x^2(x-1)}$