

DURING THE QUIZ

• File uploading is not needed.
• The exam should only be answered within the given time.

Question 4 6 pts

Evaluate:

$$\int_0^{\frac{\pi}{2}} 10 \sin^8 x \cos^9 x dx$$

☐ $\frac{256}{21879} \pi$

☐ $\frac{128}{21879} \pi$

☐ $\frac{128}{21879}$

☒ $\frac{256}{21879}$

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AFTER THE QUIZ

Question 4 0 / 6 pts

Evaluate:

$$\int_0^{\frac{\pi}{2}} 10 \sin^8 x \cos^9 x dx$$

You Answered ☒ $\frac{256}{21879} \pi$

☐ $\frac{128}{21879} \pi$

☐ $\frac{128}{21879}$

Correct Answer ☐ $\frac{256}{21879}$

DURING THE QUIZ

Question 8

10 pts

What is the area of the region bounded by the graph of $r = 4 \sin 2\theta$?

Choose two (2) correct answers.

☐ $A = 8 \int_0^{\frac{\pi}{4}} 16 \sin^2 2\theta d\theta$
☐ $A = 8 \int_0^{\frac{\pi}{2}} 16 \sin^2 2\theta d\theta$
☒ $A = 2 \int_0^{\frac{\pi}{2}} 16 \sin^2 2\theta d\theta$
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Question 8

0 / 10 pts

What is the area of the region bounded by the graph of $r = 4 \sin 2\theta$?

Choose two (2) correct answers.

Correct Answer

☐ $A = 8 \int_0^{\frac{\pi}{4}} 16 \sin^2 2\theta d\theta$
☐ $A = 8 \int_0^{\frac{\pi}{2}} 16 \sin^2 2\theta d\theta$
☐ $A = 2 \int_0^{\frac{\pi}{2}} 16 \sin^2 2\theta d\theta$

You Answered

☒ $A = 4 \int_0^{\frac{\pi}{2}} 16 \sin^2 2\theta d\theta$

Correct!

☐ $A = 2 \int_0^{\frac{\pi}{4}} 16 \sin^2 2\theta d\theta$
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