Web**Assign** 

Hw 16 (7.8): Improper Integrals (Homework)

Yinglai Wang

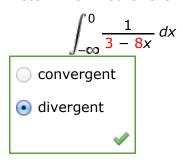
MA 162 Spring 2012, section 321, Spring 2012

Instructor: Jonathan Montano

1. 2/2 points | Previous Answers

SCalcET7 7.8.007.

Determine whether the integral is convergent or divergent.



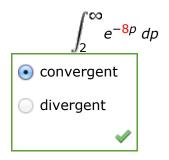
If it is convergent, evaluate it. (If the quantity diverges, enter DIVERGES.)



2. 2/2 points | Previous Answers

SCalcET7 7.8.009.

Determine whether the integral is convergent or divergent.



If it is convergent, evaluate it. (If the quantity diverges, enter DIVERGES.)



3. 2/2 points | Previous Answers

SCalcET7 7.8.013.

Determine whether the integral is convergent or divergent.

$$\int_{-\infty}^{\infty} 19xe^{-x^2} dx$$

convergent
divergent

If it is convergent, evaluate it. (If the quantity diverges, enter DIVERGES.)





### **4.** 2/2 points | Previous Answers

SCalcET7 7.8.014.MI.

Determine whether the integral is convergent or divergent.

$$\int_{1}^{\infty} 13 \frac{e^{-\sqrt{x}}}{\sqrt{x}} dx$$

• convergent

• divergent

If it is convergent, evaluate it. (If the quantity diverges, enter DIVERGES.)



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#### **5.** 2/2 points | Previous Answers

SCalcET7 7.8.016.

Determine whether the integral is convergent or divergent.

$$\int_{-\infty}^{\infty} \frac{29 \cos \pi t \, dt}{\cos \pi t \, dt}$$
convergent
divergent

If it is convergent, evaluate it. (If the quantity diverges, enter DIVERGES.)

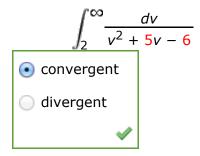


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## **6.** 2/2 points | Previous Answers

SCalcET7 7.8.018.

Determine whether the integral is convergent or divergent.



If it is convergent, evaluate it. (If the quantity diverges, enter DIVERGES.)

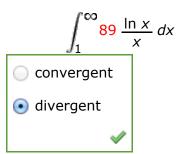


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# 7. 2/2 points | Previous Answers

SCalcET7 7.8.021.

Determine whether the integral is convergent or divergent.



If it is convergent, evaluate it. (If the quantity diverges, enter DIVERGES.)



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#### 8. 2/2 points | Previous Answers

SCalcET7 7.8.027.MI.

Determine whether the integral is convergent or divergent.

$$\int_0^1 \frac{81}{x^5} \, dx$$



If it is convergent, evaluate it. (If the quantity diverges, enter DIVERGES.)



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**9.** 2/2 points | Previous Answers

SCalcET7 7.8.028.

Determine whether the integral is convergent or divergent.

$$\int_{2}^{3} \frac{13}{\sqrt{3-x}} dx$$
• convergent
• divergent

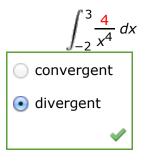
If it is convergent, evaluate it. (If the quantity diverges, enter DIVERGES.)



10.2/2 points | Previous Answers

SCalcET7 7.8.031.

Determine whether the integral is convergent or divergent.



If it is convergent, evaluate it. (If the quantity diverges, enter DIVERGES.)

