

Grade:

Name: \_\_\_\_\_ Section#: \_\_\_\_\_

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## MAC2312: Calculus 2

### Advanced Standard: Improper Integrals #2

1. Determine if the integral converges or diverges. If it converges, evaluate it.

$$\int_4^{\infty} \frac{dx}{x(\log(x))^4}$$

2. Determine if the integral converges or diverges.  $\int_1^{\infty} \frac{\log\left(\frac{1+x}{x}\right)}{x^3} dx$

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3. Determine if the integral converges or diverges. If it converges, evaluate it.

$$\int_{-2}^1 \frac{3x - 5}{(x - 3)(x - 1)} dx$$