

## Calculus 1: Sample Questions, Final Exam, Solutions

1. Short answer. Put your answer in the blank. **NO PARTIAL CREDIT!**

(a) Evaluate  $\int_{e^2}^{e^3} \frac{1}{x} dx$ . Your answer should be in the form of an integer.

**Solution:**  $\int_{e^2}^{e^3} \frac{1}{x} dx = \ln|x| \Big|_{e^2}^{e^3} = \ln|e^3| - \ln|e^2| = \ln(e^3) - \ln(e^2) = 3 - 2 = 1.$

(b) Evaluate  $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \cos \theta d\theta$ . Your answer should be in the form of an integer.

**Solution:**  $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \cos \theta d\theta = \sin \theta \Big|_{-\frac{\pi}{2}}^{\frac{\pi}{2}} = \sin\left(\frac{\pi}{2}\right) - \sin\left(-\frac{\pi}{2}\right) = 1 - (-1) = 2.$

(c) Compute  $e^{\ln 3 + \ln 2}$ . Your answer should be in the form of an integer.

**Solution:**  $e^{\ln 3 + \ln 2} = e^{\ln 3} e^{\ln 2} = 3 \cdot 2 = 6.$

(d) Compute  $\int_5^5 \frac{x^3}{e^x + 9} dx$ . Your answer should be in the form of an integer.

**Solution:**  $\int_5^5 \frac{x^3}{e^x + 9} dx = 0$  since it is a definite integral over an interval of zero length. (This integral is probably impossible to do otherwise.)

(e) Evaluate  $\int 3x^2 \sin(x^3 + 1) dx$ .  + C

**Solution:** Calculate for a substitution  $u = x^3 + 1$ ,  $du = 3x^2 dx$ , and so

$$\int 3x^2 \sin(x^3 + 1) dx = \int \sin u du = -\cos u + C = -\cos(x^3 + 1) + C.$$

(f) Evaluate the derivative  $D_x e^x$ .

**Solution:**  $e^x.$

# Calculus 1 Final Exam With Solutions

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