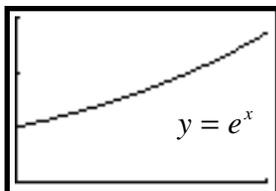




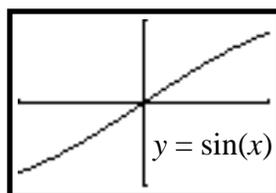
In Class Exercises (ICE)

In each of the following, you are given the graph of a function and a claim. Use the graph to evaluate the truth or falsehood of the claim.



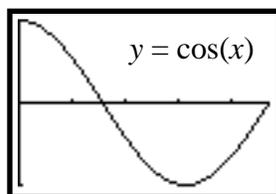
Window: [0,1] by [0,3]

Claim: $0 < \int_0^1 e^x dx < 3$



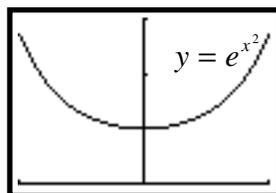
Window: [-1,1] by [-1,1]

Claim: $\int_{-1}^1 \sin(x) dx = 0$



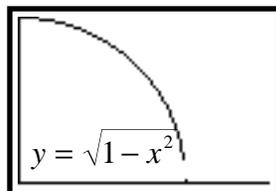
Window: [0,3 π/2] by [-1,1]

Claim: $\int_{\pi/2}^{3\pi/2} \cos(x) dx > 0$



Window: [-1,1] by [0,3]

Claim: $\int_0^1 e^{x^2} dx = \frac{1}{2} \int_{-1}^1 e^{x^2} dx$



Window: [0,1.5] by [0,1]

Claim: $\int_0^1 \sqrt{1-x^2} dx < \frac{1}{2}$