

NAME _____

1. Evaluate $\int_{-2}^2 (x^2 - 4) dx$

2. Was your answer in #1 positive or negative? Does that answer make sense? Look at the graph of $y = x^2 - 4$ on $[-2, 2]$ – does your answer make sense now?

3. Evaluate: $\int_0^{\pi} (\cos x) dx$

4. Evaluate $\left| \int_{-3}^3 (x^2 - 4) dx \right|$

5. Evaluate $\int_{-3}^3 |x^2 - 4| dx$

6. Do #4 & #5 have the same answer?