Problem 1

Find the area between $y = x^2 - 4$ and y = x + 3 from x = -1 to x = 2.

Problem 2

Find the area of the region bounded by $y = x^2 - 4$ and y = x + 2.

Problem 3

Find the area (in the first quadrant) bounded by $y = \frac{4}{x^3}$, $y = \frac{x}{4}$ and y = 4x.

Problem 4

Find the area between $y=x^2$ and y=1 on [-1,2]. (Hint: one way to solve this is to use absolute value... another hint: the answer does **not** come from the integral $\int_{-1}^2 x^2 - 1 \ dx$ or $\int_{-1}^2 1 - x^2 \ dx$)