1. **SET UP** the integral to find the arc length of the curve $f(x) = x^3$ over the interval $[0,2]$

2. **SET UP** the integral to find the area of the surface formed by rotating the graph of the curve $f(x) = 2\sqrt{x}$ over $[0,3]$ about the $x$-axis.

**BONUS: NO EXTRA TIME:** Find the area to #2, that is what is the area of the surface?