Surface Area Worksheet

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1 Exercises

- I. Find the surface area of the surface of revolution formed by taking the curve $y = x^3$ over [0,1] and revolving it about the x-axis.
- II. Find the surface area of the surface of revolution formed by taking the curve $y=x^2$ over [1, 2] and revolving it about the y-axis.
- III. Find the surface area of the surface of revolution formed by taking the curve $x = \sqrt{9 y^2}$, for $-2 \le y \le 2$, and revolving it about the y-axis.