

Name _____

Pick any 2 of the following choices and find the area of the surface generated by revolving the given curve around the stated axis.

1. $y = \sqrt{x}$, $1 \leq x \leq 4$, x -axis

2. $x = \sqrt[3]{y}$, $1 \leq y \leq 8$, x -axis

3. $x = y^3$, $0 \leq y \leq 1$, y -axis

4. $x = 2\sqrt{1-y}$, $-1 \leq y \leq 0$, y -axis