1.(1 pt) Find the area of the surface obtained by rotating the curve

$$y = 4x^3$$

from $x = 0$ to $x = 6$ about the x-axis.

2.(1 pt) Find the area of the surface obtained by rotating the curve

$$y = \sqrt{6x}$$

from $x = 0$ to $x = 5$ about the x-axis.

3.(1 pt) Find the area of the surface obtained by rotating the curve

$$y = 1 + 4x^2$$

from $x = 0$ to $x = 7$ about the y-axis.

4.(1 pt) Find the area of the surface obtained by rotating the curve

$$x = 2e^{2y}$$

from $y = 0$ to $y = 2$ about the y-axis.