姓名:		葉均承 化學一微積分
學號:	Quiz 1	考試日期: 2020/03/16

不可使用手機、計算器,禁止作弊!

1. (30%) Set up, but do not evaluate, an integral to find the volume of the solid found by rotating the region bounded by $x = y^2$ and x = 4 about the line x = 4.

2. (40%) Set up, but do not evaluate, an integral to find the volume of the solid found by rotating the region bounded by $y = x^2$ and $y = 8-x^2$ about the line y = 10.

3. (30%) Set up, but do not evaluate, an integral to find the volume of the solid whose base is the region bounded by the parabola $y = 16-x^2$ and the x-axis, and whose cross-sections perpendicular to the x-axis are semicircles.