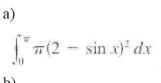
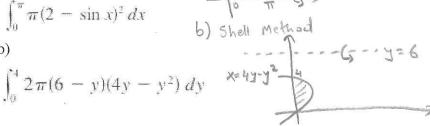
Present neatly on separate paper. Justify for full credit. No Calculators. Name KEY/SHWQGuScore 30 minutes Weight: x5

1) Each integral represents the volume of a solid. Describe the solid in as much detail as a) f(x)= 2-sinx on [o,17] about y=0 possible!





- 2) The base of a solid is a circular disk with radius 3. Find the volume of the solid if parallel cross-sections perpendicular to the base are isosceles right triangles with hypotenuse lying along the base.
- 3) Find the area of the region bounded by the given curves.

$$x + y = 0$$
, $x = y^2 + 3y$

4) Find the volume of the solid obtained by rotating the region bounded by the given curves about the specified axis.

