Instructions. Show all work, with clear logical steps. No work or hard-to-follow work will lose points.

1.) (9 points) Find the volume of the solid bounded by

$$z = 22 - \sqrt{x^2 + y^2}$$

and the xy-plane.

2.) (9 points) Use a triple integral to find the volume of the wedge bounded by the parabolic cylinder $y = x^2$ and the planes $z = 12 - y$ and $z = 0$.

3.) (2 points) Do you have any fun plans for spring break?