MATH 1525 CALCULUS I Quiz 12 Name:
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**Problem 1.** Find the equation of the line which passes through the points $(0, h)$ and $(r, 0)$.

**Problem 2.** Sketch the cone of height $h$ and radius $r$ obtained by revolving this line about the $y$-axis.

**Problem 3.** Set up the integral which computes the volume of this cone using the disk method.

**Problem 4.** Set up the integral which computes the volume of this cone using the shell method.

**Problem 5.** Compute one of these integrals.