**Quiz 5      Calculus 3      10/6/2009**

Each problem is worth 5 points. Clear and complete justification is required for full credit.

1. **Set up** a double integral for the volume of the region bounded by the coordinate planes and the plane $3x + 2y + z = 6$.

2. Set up a double integral for the volume of the solid bounded by the cylinder $x^2 + y^2 = 4$ and the planes $x = z$, $y = 0$, and $z = 0$ in the first octant.