

**Math 201-07 Quiz 6 Term 122**

**Exercise:** Write the equation in spherical coordinates

$$x^2 - 2x + y^2 + z^2 = 0$$

**Exercise:** Evaluate

$$I = \int \int \int_E xyz \, dv$$

where  $E$  lies between the spheres  $\rho = 2$  and  $\rho = 4$  and above the cone  $\phi = \frac{\pi}{3}$ .