## (Easier) Practice Quiz 6 Calc 3 11/18/2008

1. Parametrize and give bounds for the portion of the paraboloid  $z = x^2 + y^2$  lying above the rectangle with vertices (0,0), (2,0), (2,3), and (0,3).

2. Parametrize and give bounds for the portion of the cylinder with radius 4 centered around the *z*-axis between z = 2 and z = 10.

## (Harder) Practice Quiz 6 Calc 3 11/18/2008

1. Parametrize and give bounds for the rectangle with vertices (3,0,0), (3,2,0), (3,2,5), and (3,0,5).

2. Parametrize and give bounds for the right half (i.e. the portion with positive *y* coordinates) of the cylinder with radius *a* and centered on the *x*-axis between x = 0 and x = 5.