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

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

$$x(u,v)=3$$

 $y(u,v)=0$
 $z(u,v)=V$
 $0 \le u \le 2 \cdot 0 \le v \le 5$
Nice.

2. Parametrize and give bounds for the portion of a cylinder with radius 5 centered on the y-axis between y = 2 and z = 20.

