Time: 10min

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1.	Describe	the	region	in	$R^3$	determined	by	the $\epsilon$	equation	xy =	= 0	
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- **2.** Write an equation for a cylinder of radius 1 around the y-axis.
- **3.** (Bonus) Let  $\mathbf{v}$  be a nonzero vetor. Show that  $\frac{\mathbf{v}}{|\mathbf{v}|}$  is a unit vector.

Each problem is worth 5 pts.