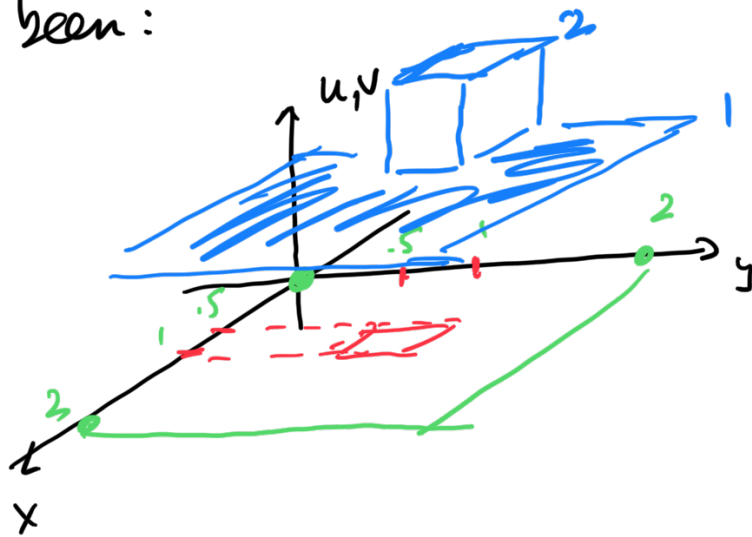
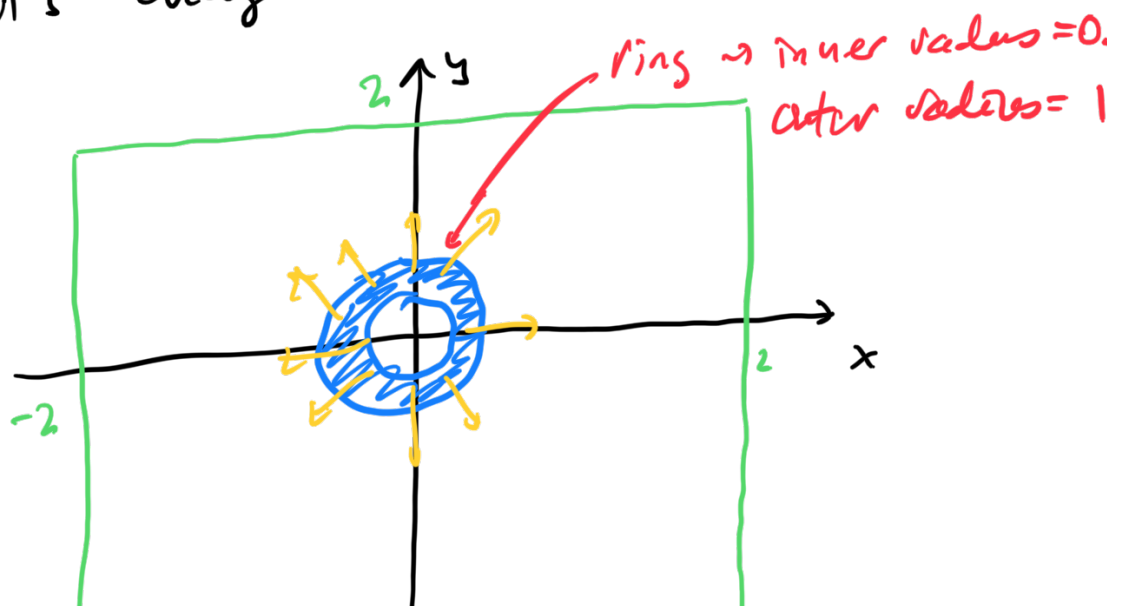


## Dropping a Pebble in a Pond

Up to this point, the initial conditions that we have been studying have been:

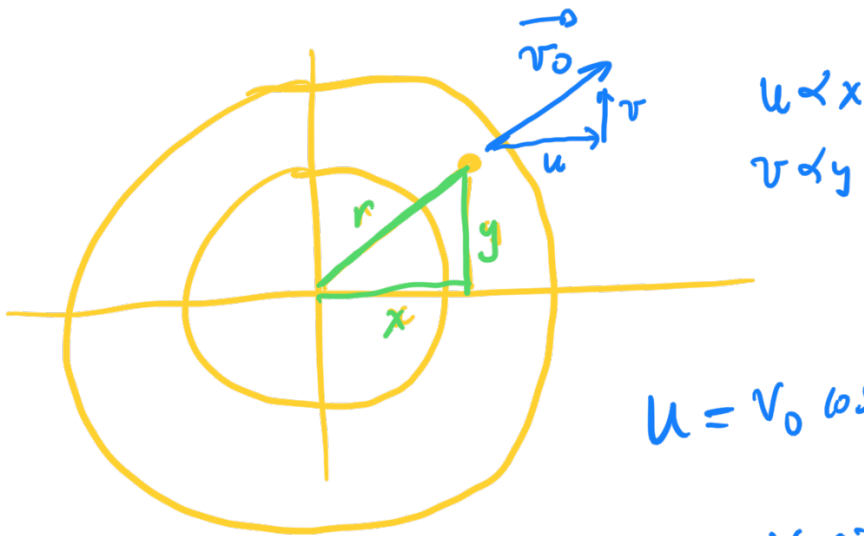


Let's change this to:



—  $-2$  —

with: 
$$\begin{aligned} u &= v_0 \cos \theta \\ v &= v_0 \sin \theta \end{aligned} \quad \left. \vphantom{\begin{aligned} u &= v_0 \cos \theta \\ v &= v_0 \sin \theta \end{aligned}} \right\} v_0 = 2 \text{ m/s}$$



$$u = v_0 \cos \theta = v_0 \cdot \frac{x}{r}$$

$$v = v_0 \sin \theta = v_0 \cdot \frac{y}{r}$$

Remember, we need to set B.C.'s so that  $u = v = 0$  at the edges!!