

Fill in the table with "yes" or "no." HW

46

Region	open?	connected?	simply connected?
$\{(x, y) \mid y \neq 0\}$			
$\{(x, y) \mid y^2 \geq 5\}$			
$\{(x, y) \mid x, y > 0\}$			
$\{(x, y) \mid r < 5\}$			
$\{(x, y) \mid x^2 > 5\}$			
$\{(x, y) \mid r > 5\}$			
$\{(x, y) \mid (x, y) \neq (2, 3), (3, 4)\}$			

It may help to sketch the region!