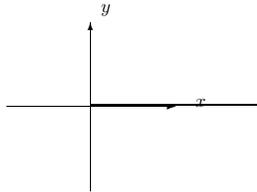


**LINEAR SUBSPACES**

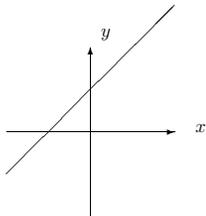
Math 21b, O. Knill

Which of the following subsets in the plane are linear spaces?

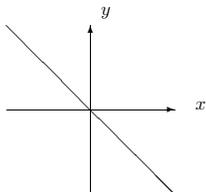
- Positive real axes.



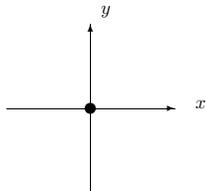
- The line  $-x + y = 1$



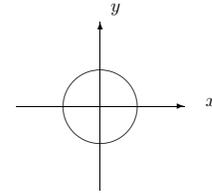
- The line  $x - y = 0$



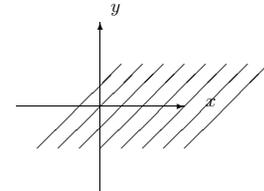
- The point  $\{0\}$



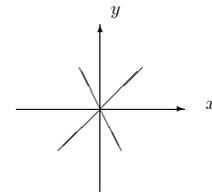
- The unit circle.



- The whole plane.



- The union of the two lines



- The upper half plane.

