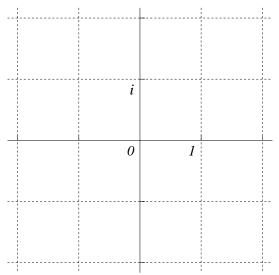
Name

Carefully sketch each of the collections of complex numbers. For each of them, answer the following questions (use Y for "yes" and N for "No"):

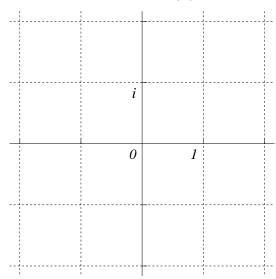
Is this set open? Is this set closed? Is this set a domain?

A: z's so that Re z < 0.



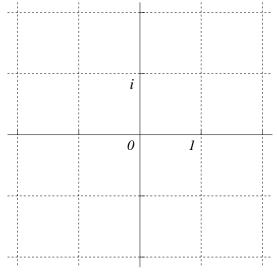
Open? \_\_\_ Closed? \_\_\_ A domain? \_\_\_

B: z's so that  $0 < |z| \le 1$ .



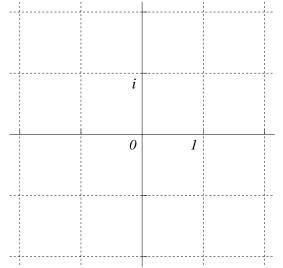
Open? \_\_\_ Closed? \_\_\_ A domain? \_\_\_

C: z's so that  $\frac{1}{2} < \operatorname{Im} z$  and 1 < |z| < 2.



Open? \_\_\_ Closed? \_\_\_ A domain? \_\_\_

D: z's so that 0 < Im z < 1 and 1 < |z| < 2.



Open? \_\_\_ Closed? \_\_\_ A domain? \_\_\_