(1)

(A) is 20 in it?

(B) is 175?

$$\boxed{no}$$ $$\boxed{no}$$

sample set of infinite set

$S = \{1, 3, 7, 15, 31, 63, 127, 255 \dots (2n+1)\}$

$2(1)+1 = 3 \qquad 2(3)+1 = 7 \dots$

(2)

infinite set

$S = \{a, abc, abcbc, abcbcbc, \dots \}$

(3)

initial = 3 $\qquad$ n=3 $\qquad$ $2n-3 = 2(3)-3 = 3$ every time

$S = \{3, 3, 3 \dots\} = \overline{3}$ to infinity

(4) $\{7, 17, 27, 37, 47 \dots\}$

a) $7 \in S$ and if $n \in S$, then $n+10 \in S$

(5)

S consists of strings begining with c with then 3 possibilities
of [a,b,c] for each letter after behind the c's.

6    $(1,2)$, $(3,2)$, $\overset{and}{(1,4)}$, $(2,3)$) , $(5,2)$

     $(2,1)$, $((4,1)$, $(2,3)$, $(3,2)$)) ,

from the ordered pair $(1,2)$ and $(2,1)$ in the form (m,n) contains every 1 odd and 1 even int.

Every integer appears, but no 2 even numbers together