

18. There is a sequence of pattern made with number



pattern number 1



pattern number 2



pattern number 3

(a) Is the next number in the pattern number 4?



(b) Complete the table

|               |
|---------------|
| Answer and    |
| Number of 1's |

(c) Find an expression, in terms of  $n$ , for the number of 1's in the  $n$ th pattern.

Problem 19 (continued)

(d) Find an expression, in terms of  $n$ , for the number of 1's in the  $n$ th pattern.

(e) Find an expression, in terms of  $n$ , for the number of 1's in the  $n$ th pattern.

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