

**Three sequences of odd abundant numbers of the form  
 $(4*k+2)*P+n*(2002*k+1001)$  where P Poulet number**

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**Abstract.** In this paper I present three sequences of numbers of the form  $(4*k + 2)*P + n*(2002*k + 1001)$ , where P is Poulet number, k natural and n integer (corresponding to  $[P, n] = [41041, -1], [101101, 5]$  and  $[401401, 35]$ ); I conjecture that they have all the terms odd abundant numbers.

**Three sequences of numbers of the form  
 $(4*k + 2)*P + n*(2002*k + 1001)$   
(where P is Poulet number, k natural and n integer)**

**Conjecture 1:**

All numbers of the form  $(4*k + 2)*P + n*(2002*k + 1001)$ , where  $[P, n] = [41041, -1]$ , where k natural, are odd abundant numbers.

The first ten terms of the sequence: 81081, 243243, 405405, 567567, 729729, 891891, 1054053, 1216215, 1378377, 1540539.

**Conjecture 2:**

All numbers of the form  $(4*k + 2)*P + n*(2002*k + 1001)$ , where  $[P, n] = [101101, 5]$ , where k natural, are odd abundant numbers.

The first ten terms of the sequence: 207207, 621621, 1036035, 1450449, 1864863, 2279277, 2693691, 3108105, 3522519, 3963933.

**Conjecture 3:**

All numbers of the form  $(4*k + 2)*P + n*(2002*k + 1001)$ , where  $[P, n] = [401401, 35]$ , where k natural, are odd abundant numbers.

The first ten terms of the sequence: 837837, 2513511, 4189185, 5864859, 7540533, 9216207, 10891881, 12567555, 14243229, 15918903.