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> # 完全数6, 28, 、 、 、 by H.E 2019 - 11 - 6 :
> c := 0 :for n from 2 to 10000000 do s := 1 :for x from 2 to floor( evalf( n^(1/2) ) ) do if n
mod x = 0 then s := s + x + n/x fi: od:if s mod n = 0 then if s/n = 1 then print( ) :
print( 完全数, H=n, 約数の和 = s[ifactor(s)] ) else print( ) : print( { s/n } 倍数, H=n,
約数の和 = s[ifactor(s)] ) fi:fi:od:

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完全数,  $H=6$ , 約数の和 =  $6_{(2)(3)}$

完全数,  $H=28$ , 約数の和 =  $28_{(2)^2(7)}$

{2} 倍数,  $H=120$ , 約数の和 =  $240_{(2)^4(3)(5)}$

完全数,  $H=496$ , 約数の和 =  $496_{(2)^4(31)}$

{2} 倍数,  $H=672$ , 約数の和 =  $1344_{(2)^6(3)(7)}$

完全数,  $H=8128$ , 約数の和 =  $8128_{(2)^6(127)}$

{3} 倍数,  $H=30240$ , 約数の和 =  $90720_{(2)^5(3)^4(5)(7)}$

{3} 倍数,  $H=32760$ , 約数の和 =  $98280_{(2)^3(3)^3(5)(7)(13)}$

{2} 倍数,  $H=523776$ , 約数の和 =  $1047552_{(2)^{10}(3)(11)(31)}$  (1)

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> for h from 2 to 10000 do if isprime( (h^h - 1) / (h - 1) ) then print( ([h]^h - 1) / ([h] - 1) = prime(H * E[h]) )
fi:od:

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$$\frac{[2]^2 - 1}{[2] - 1} = \text{prime}(H \cdot E_2)$$

$$\frac{[3]^3 - 1}{[3] - 1} = \text{prime}(H \cdot E_3)$$

$$\frac{[19]^{19} - 1}{[19] - 1} = \text{prime}(H \cdot E_{19})$$

$$\frac{[31]^{31} - 1}{[31] - 1} = \text{prime}(H \cdot E_{31})$$

$$\frac{[7547]^{7547} - 1}{[7547] - 1} = \text{prime}(H \cdot E_{7547})$$
 (2)