Epravia 2 Donis Disopium

'Ovona: EPINAPENHE DHMH7P105

AM: 1115 202200 266

Aornon 2:

$$f. f_3(n) = 2^{3000n \log n} = 0 (2^{3000n \log n})$$

$$\Delta$$
. $F_4(n) = 2^{300 \cdot log n} = 2^{log n^{300}} = n^{300} = \Theta(n^{300})$

2.
$$F_{6(n)} = 6n^{4} + n = \Theta(max(6n^{4}, n)) = \Theta(6n^{4}) = \Theta(n^{4})$$

$$H. F_{7}(n) = N. (ogn. 2^{n+5} = 2^{n+5}. 2^{(ogn)}. 2^{(og(logn))} = 2^{n+5+(ogn+log(logn))}$$

$$| \sigma_{X} \circ S_{1} | F_{7}(n) = O(F_{3}(n)) | S_{0}(n) | n + 5 + (og n + log log n = 0) | O(n) | O(n)$$

$$=O(max(n,5)(ogn,loglogn))=O(n)=O(3000n(ogn))$$

$$\Theta$$
. $F_8(n) = 2^2 = \Theta(2^n)$ ps $F_3(n) = O(F_8(n))$ from $F_3(n) = O(F_8(n))$ from $F_3(n) = O(F_8(n))$

$$I. F_{q(n)} = 2^{2 \log n} = 2^{n} = \Theta(2^{n}) \text{ ps } F_{q(n)} = O(F_{7(n)})$$

$$h. F_{10}(n) = 2^{2^{1/(6g^{n})}} = 2^{2^{1/2}(6g^{n})} = 2^{2^{1/2}} p_{1} F_{8}(n) = O(F_{10}(n))$$