

Below are seven functions of integer variable n . Sort these functions in increasing order of their running times.

$$(a) n^2 \cdot \log_2 n + n^3 \quad (b) 0.1 \cdot n^{5.5} \quad (c) n^{1.5} + \frac{1}{4} n! \quad (d) \log_2 n + 7\sqrt{n}$$

$$(e) 7 \cdot (\log_2 n)^3 \quad (f) \frac{(1.5)^n}{1500} \quad (g) 3n + \log_2 n$$