

f	g	O	o	Ω	ω	Θ
$\log^2 n$	$6 \log n$	No	No	Yes	Yes	No
$\sqrt{\log n}$	$(\log \log n)^3$	No	No	Yes	Yes	No
$4n \log n$	$n \log 4n$	No	No	Yes	Yes	No
$n^{3/5}$	$\sqrt{n} \log n$	No	No	Yes	Yes	No
$5\sqrt{n} + \log n$	$2\sqrt{n}$	Yes	No	Yes	No	Yes
$n^5 4^n$	5^n	Yes	Yes	No	No	No
$\sqrt{n} 2^n$	$2^{n/2 + \log n}$	No	No	Yes	Yes	No
$n \log 2n$	$\frac{n^2}{\log n}$	Yes	Yes	No	No	No
$n!$	2^n	No	No	Yes	Yes	No
$\log n!$	$\log n^n$	Yes	Yes	No	No	No