

Solution

1. $n(\log n)^3$
2. $2^{\sqrt{\log n}}$
3. $n^{4/3}$
4. $2^{(\log n)^2}$
5. 2^n
6. 2^{2^n}
7. 2^{n^2}

I think that it makes sense for number 7 to be the highest growth rate, because n^2 is a fast growth rate, and so squaring that would mean that it was even faster. 2^n is a slightly slower growth rate than n^2 , so for that reason I placed it in 6th place. I chose $n(\log n)^3$ as the slowest growth rate because it was the closest to a linear growth rate.
