

Problem 1:

class 1

2

7, 1 2 3 4 5 6 7 8 9

$\left(\frac{1}{2}\right)^n$ 1

x^{-2}

Class 2

$\log \log n, \log n, (\log n)^2, \log_4(n), \log(n^3)$

3

$n+5$

Class 3

4

$\sqrt{n}, n^{3/4}, n^{1/4}, \frac{1}{\log n}$

5

class 4

$n^2, n^2 \log n, n^{2^n}, n^{\log(\log n)}, n^{2+10^{100}} \times n \log n, n \log n$

6

class 5

7

$\log n, \frac{1}{n}, 2^n, 4^{n-1}, 2^n, n^2, \log n$

8

9

$(\log n)^{\log n}, n!$

10

Class 5

n^4

11

n^n

- 6 Additionally, many incorrect orders.
- 7
- 8 Extra complexity from question? Probably 4^n ,
- 9
- 10
- 11