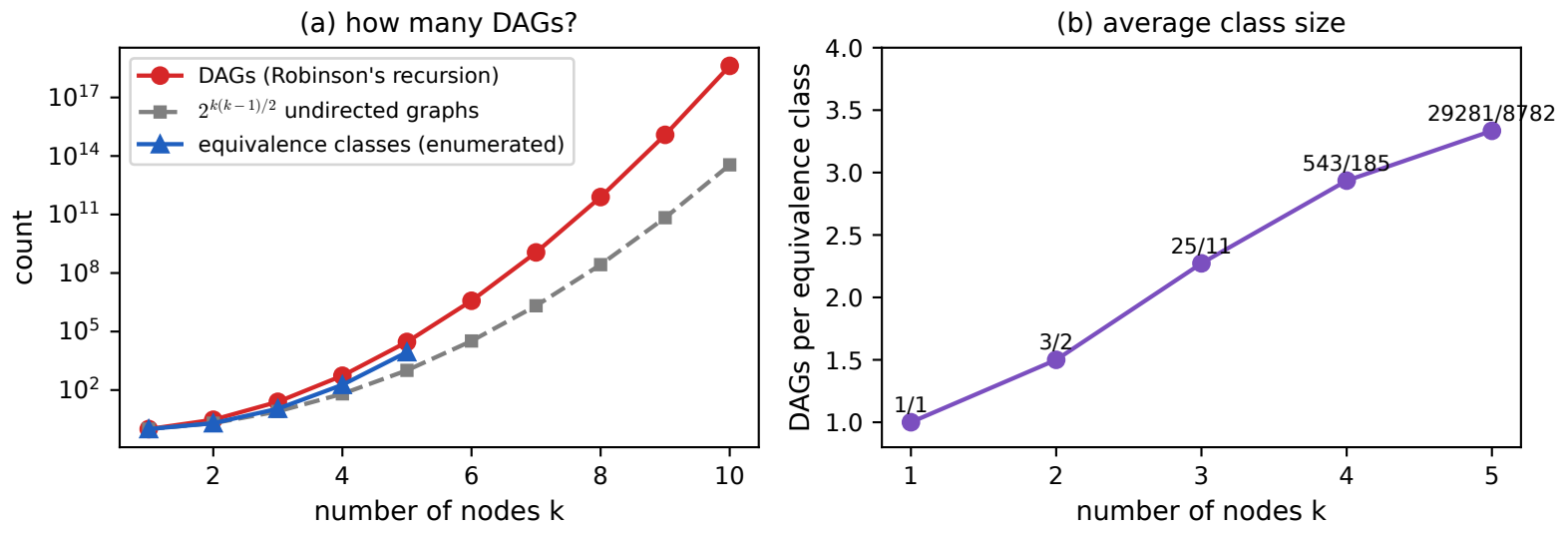

(a) how many DAGs?
DAGs (Robinson's recursion)
$2^{k(k-1)/2}$ undirected graphs
equivalence classes (enumerated)
count
10^{17}
10^{14}
10^{11}
10^{8}
10^{5}
10^{2}
2
4
6
8
10
number of nodes k
(b) average class size
DAGs per equivalence class
4.0
3.5
3.0
2.5
2.0
1.5
1.0
1/1
3/2
25/11
543/185
29281/8782
1
2
3
4
5
number of nodes k