## Class work: Recurrences

What are the solutions to the following recurrences?

1. $T(n)=T(n / 3)+\Theta(1)$
2. $T(n)=T(n / 5)+\Theta(1)$
3. $T(n)=T(n / 10)+\Theta(1)$
4. $T(n)=T(2 n / 3)+\Theta(1)$
5. $T(n)=T(99 n / 100)+\Theta(1)$
6. $T(n)=T(n / 3)+T(n / 4)+\Theta(1)$
7. $T(n)=T(n / 2)+T(n / 4)+T(n / 10)+\Theta(1)$
8. $T(n)=T(n-2)+\Theta(n)$
9. $T(n)=3 T(n / 3)+\Theta(n)$
10. $T(n)=5 T(n / 5)+\Theta(n)$
11. $T(n)=T(n / 3)+T(2 n / 3)+\Theta(n)$
12. $T(n)=1+T(n-2)$
13. $T(n)=1+T(n-3)$
14. $T(n)=2 T(n-1)+\Theta(1)$
