For each of the recursions below, state its solution where $T(n) = 1$ for $n \leq 1$.

	$\Theta(\log n)$	$\Theta(\sqrt{n})$	$\Theta(n)$	$\Theta(n \log n)$	$\Theta\left(n^2\right)$	$\Theta\left(n^2 \log n\right)$	$\Theta\left(n^3\right)$
$T(n) = T(n/3) + 2$	◉ ✔	○	○	○	○	○	○
$T(n) = 2 \cdot T(n/4) + 1$	○	◉ ✔	○	○	○	○	○
$T(n) = 3 \cdot T(n/4) + n$	○	○	◉ ✔	○	○	○	○
$T(n) = 4 \cdot T(n/2) + n^2$	○	○	○	○	○	◉ ✔	○

For each of the recursions below, state its solution where $T(n) = 1$ for $n \leq 1$.

	$\Theta(\log n)$	$\Theta(\sqrt{n})$	$\Theta(n)$	$\Theta(n \log n)$	$\Theta\left(n^2\right)$	$\Theta\left(n^2 \log n\right)$	$\Theta\left(n^3\right)$
$T(n) = 3 \cdot T(n/9) + 1$	○	◉ ✔	○	○	○	○	○
$T(n) = 3 \cdot T(n/4) + n^2$	○	○	○	○	◉ ✔	○	○
$T(n) = T(n-1) + \log n$	○	○	○	◉ ✔	○	○	○
$T(n) = T(n-1) + 2$	○	○	◉ ✔	○	○	○	○
$T(n) = 2 \cdot T(n/4) + 3$	○	◉ ✔	○	○	○	○	○

For each of the recursions below, state its solution where $T(n) = 1$ for $n \leq 1$.

	$\Theta(\log n)$	$\Theta(\sqrt{n})$	$\Theta(n)$	$\Theta(n \log n)$	$\Theta\left(n^2\right)$	$\Theta\left(n^2 \log n\right)$	$\Theta\left(n^3\right)$
$T(n) = 9 \cdot T(n/3) + 1$	○	○	○	○	◉ ✔	○	○
$T(n) = T(n/2) + 5$	◉ ✔	○	○	○	○	○	○
$T(n) = 9 \cdot T(n/3) + n^2$	○	○	○	○	○	◉ ✔	○
$T(n) = 4 \cdot T(n/5) + n$	○	○	◉ ✔	○	○	○	○
$T(n) = 4 \cdot T(n/5) + n^3$	○	○	○	○	○	○	◉ ✔

For each of the recursions below, state its solution where $T(n) = 1$ for $n \leq 1$.

	$\Theta(\log n)$	$\Theta(\sqrt{n})$	$\Theta(n)$	$\Theta(n \log n)$	$\Theta\left(n^2\right)$	$\Theta\left(n^2 \log n\right)$	$\Theta\left(n^3\right)$
$T(n) = 2 \cdot T(n/4) + 1$	○	◉ ✔	○	○	○	○	○
$T(n) = T(n-1) + n^2$	○	○	○	○	○	○	◉ ✔
$T(n) = 3 \cdot T(n/9) + 3$	○	◉ ✔	○	○	○	○	○
$T(n) = 3 \cdot T(n/4) + n$	○	○	◉ ✔	○	○	○	○
$T(n) = 4 \cdot T(n/5) + n^2$	○	○	○	○	◉ ✔	○	○