For each of the following recurrences, use the Master Theorem to give an asymptotic bound on each of the defined sequences. (I.e., give a function $f(n)$ such that $T(n)$ is $\Theta(f(n))$.)
1.

$$
\begin{aligned}
& T(0)=1 \\
& T(1)=1 \\
& T(n)=5 T(\lfloor n / 3\rfloor)+7 n^{2}, \text { for } n \geq 2
\end{aligned}
$$

2. 

$$
\begin{aligned}
& T(0)=1 \\
& T(1)=1 \\
& T(n)=3 T(\lfloor n / 5\rfloor)+6 n, \text { for } n \geq 2
\end{aligned}
$$

3. 

$$
\begin{aligned}
& T(1)=1 \\
& T(n)=9 T(\lceil n / 2\rceil)+3 n^{2}, \text { for } n \geq 2
\end{aligned}
$$

4. 

$$
\begin{aligned}
& T(0)=1 \\
& T(1)=1 \\
& T(n)=2 T(\lfloor n / 5\rfloor)+3 T(\lceil n / 5\rceil)+8 n, \text { for } n \geq 2
\end{aligned}
$$

5. 

$$
\begin{aligned}
& T(1)=1 \\
& T(n)=26 T(\lceil n / 3\rceil)+n^{3}, \text { for } n \geq 2
\end{aligned}
$$

