5.
$$T(n) = 7T(\frac{n}{3}) + n^2$$
 $a = 7$
 $b = 3$
 $f(n) = n^2$
 $b = 3$
 $f(n) = \Omega$ ($n \log_3 2 + \epsilon$)

 $e^2 = \Omega$ ($n \log_3 7 + \epsilon$)

 $e^2 = 2 - \log_3 7$
 $e^2 = 2 - \log_3$