

PLEASE SUBMIT YOUR ANSWER TO PROBLEM 1 ON THIS SHEET.

	$T_1(n)$	$T_2(n)$	Is $T_1(n) = O(T_2(n))$?	Is $T_1(n) = \Omega(T_2(n))$?	Is $T_1(n) = \Theta(T_2(n))$?	Which is best?
a	$5\sqrt{n} + \log_2 n + 3$	$100n / \log_2 n + 25$				
b	$2 \log_{16} n$	$\log_2 n + 10$				
c	$n^2 + \log_{10} n - 20$	$(\log n)^2 + 20n\sqrt{n}$				
d	$5\sqrt{n} + (\ln n)^2$	\sqrt{n}				
e	$2^{(\log_4 n)} + \sqrt{n}$	$n^{3/4} \cdot \log_2 n$				

Show your work in the space below here.