

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
MATH 101 (SECTION-9)
INSTRUCTOR: Dr. Ahmad Al-Dweik
Quiz 5

Name:

ID:

S.N.:

Sec.:

1. (10 points) Evaluate the limit $\lim_{x \rightarrow \infty} e^{-x} \cosh n x$ in the following cases:

i) $n = 1$

ii) $n = -1$

iii) $-1 < n < 1$

iv) $n < -1$ or $n > 1$