

KING FAHJ UNIVERSITY OF PETROLEUM & MINERALS
ELECTRICAL ENGINEERING DEPARTMENT

EE380 [091] sec # _____

quiz # 8

Name: Key Solution ID: _____ Grade: _____

Sketch the Bode plot for $G(s) = \frac{100s+10}{10s-1}$, $G(j\omega) = \frac{10(1+j10\omega)}{-(1-j10\omega)} = 10 \frac{\angle \tan^{-1}(10\omega) - 180}{-}$

$dB = 20 \log 10 = 20 \text{ dB}$, $\angle G = -180 + 2 \tan^{-1}(10\omega)$

