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Answer Form

Theoretical Question 3:

(a) $A =$ [   ]   and $\tan \phi =$ [   ]

At $\omega = \omega_0$, $A =$ [   ]   and $\phi =$ [   ]

(b) The condition on ω for a non-vanishing output signal : [   ]

The magnitude of the dc signal = [   ]

(c) The magnitude of the signal = [   ]

(d) $\Delta m =$ [   ] kg

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(e) $\omega'_0 =$

(f) $d_0 =$

; Evaluated $d_0 =$

nm.