

*Answer Sheet*

*Theoretical Problem no. 3*

*Water world*

<b>A.1.</b>	$\sigma =$		0.5p
<b>B.1.</b>	The expression of the radius: $R =$	The value of the radius: $R =$	0.5p
<b>B.2.</b>	The expression of the radius: $R_H =$	The value of the radius: $R_H =$	0.5p
<b>C.1.</b>	$\rho_\epsilon =$		2.0p
<b>C.2.</b>	The expression of the potential: $\phi_{max} =$	The value of the potential: $\phi_{max} =$	1.0p
<b>C.3.</b>	The expression of the pressure: $\rho_\pi =$	The value of the pressure: $\rho_\pi =$	1.0p
<b>D.1.</b>	$\Delta W = w_w - w_0$		0.3p
<b>D.2.</b>	$\rho_N - \rho_M =$		1.5p
<b>D.3.</b>	The expression of the intensity: $I =$	The value of the intensity: $I =$	1.5p
<b>E.1</b>	$L_{bubble} =$		0.4p
<b>E.2</b>	$t_{up} =$		0.8p
Total points			10p