

Theory Indonesian (Indonesia)

A1-1

Two Problems in Mechanics (10 points)

Part A. The Hidden Disk (3.5 points)

A.1 (0.8 pt)	
b =	
A.2 (0.5 pt)	
$I_S =$	
A.3 (0.4 pt)	
d =	
A.4 (0.7 pt)	
$I_S =$	
A.5 (1.1 pt)	
$w_2 =$	
$r_2 =$	



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Part B. Rotating Space Station (6.5 points)

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B.1 (0.5 pt)
$\omega_{ss}=$
B.2 (0.2 pt)
$\omega_E =$
B.3 (0.6 pt)
$\omega =$
B.4 (0.8 pt)
$g_E(h) =$
$\tilde{\omega}_E =$
B.5 (0.3 pt)
R =
B.6 (1.1 pt)
$v_x =$
$d_x =$

B.7 (1.3 pt)

 $\frac{H}{R} =$

 $H \geq$

B.8 (1.7 pt)

x(t) =

y(t) =

