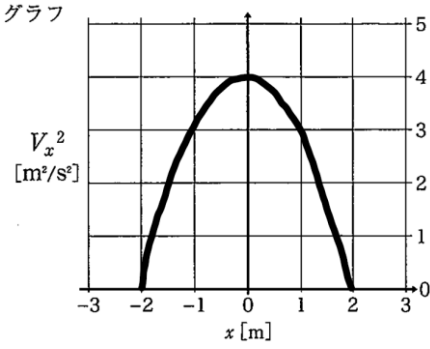
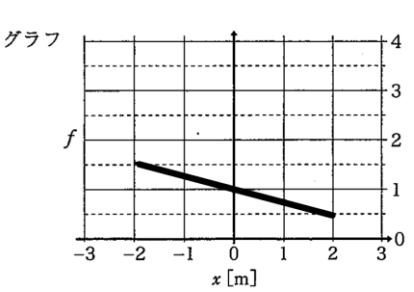
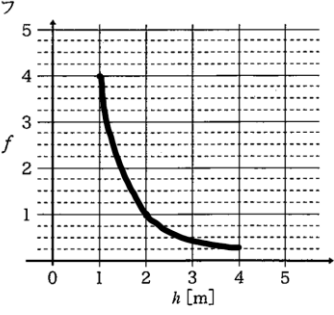
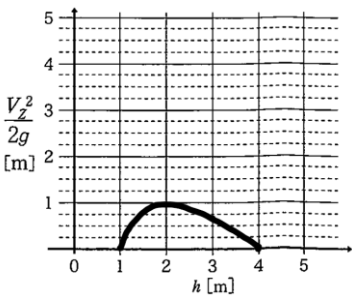


[I]

(1)	g	(2)	h	(3)	a	(4)	d	(5)	f	(6)	e	(7)	c
(8)	b	(9)	h	(10)	c	(11)	g	(12)	a	(13)	d	(14)	f

〔Ⅱ〕

問1	$b = \frac{mg \sin \theta}{k}$	
問2	$V_b = a\sqrt{\frac{k}{m}}$	
問3	$V_x^2 = \frac{k}{m}(a^2 - x^2)$	<p>グラフ</p> 
問4	<p>グラフ</p> 	
問5	$V_0 = \sqrt{2gh_0}$	
問6	$V_a = V_0 + d\sqrt{\frac{k}{2m}}$	$V_b = V_0 - d\sqrt{\frac{k}{2m}}$
問7	$h_1 = \frac{V_a^2}{2g}$	$V_1 = \sqrt{2gh_0}$
問8	$f = \frac{h_0 h_1}{h^2}$	$V_z^2 = \frac{2g}{h} H_1 H_2$
問9	$h_2 = \sqrt{h_0 h_1}$	$V_z^2 = 2gaR^2$
問10	<p>グラフ</p> 	
問11	曲面の内側に沿って回転しながら、高さ h_0 と h_1 の間を往復する。	

〔Ⅲ〕

問1	1を貫く磁束: $\mu_0 \frac{N_1}{d} S_1 \alpha t$	2を貫く磁束: $\mu_0 \frac{N_1}{d} S_1 \alpha t$
問2	$-\frac{\mu_0 N_1 N_2 S_1}{R_2 d} \alpha$	
問3	(1) $R_1 \alpha$	(2) $\mu_0 \frac{N_1^2}{d} S_1 \alpha$
問4	$\frac{3}{2} \left(\frac{\mu_0 N_1^2 S_1}{d} \right) \alpha^2 T_0^2 - \frac{T_0}{R_2} \left(\frac{\mu_0 N_1 N_2 S_1}{d} \right)^2 \alpha^2$	
問5	$ABa\omega_0$	
問6	$I_0 = \frac{ABbc\omega_0}{\rho}$	
問7	$\frac{2\pi A^2 B^2 abc\omega_0}{\rho}$	
問8	(3) $\frac{I_0}{2T}$	(4) $-\frac{LI_0}{2rT}$
	(5) $-\frac{I_0}{T}$	(6) $\left(5 + \frac{L}{rT} \right) I_0$
問9	時間帯Ⅰ]: $-\frac{MI_0}{2RT}$	時間帯Ⅱ]: $\frac{MI_0}{RT}$
問10	4倍	