



PART 1. EQUILIBRIUM					
ข้อ	คำตอบ	ข้อ	คำตอบ	ข้อ	คำตอบ
1	3	11	1	20	1
2	2	12	1	21	3
3	4	13	2	22	2
4	4	14	3	23	1
5	3	15	$P = \frac{\mu mg}{[1+\mu]}$	24	1
6	3			25	2
7	1	16	3	26	2
8	1	17	0.3	27	2
9	3	18	3	28	-
10	2	19	35.35	29	2

PART 2. EQUILIBRIUM					
1	2	12	3	23	3
2	2	13	1	24	4
3	0.3	14	4	25	1
4	1	15	4	26	4
5	3	16	3	27	$\tan^{-1}\left(\frac{1}{\mu}\right)$
6	4	17	2		
7	2	18	4	28	4
8	3	19	48	29	1
9	400	20	4	30	3
10	4	21	1		
11	2	22	3		

PART 3. EQUILIBRIUM					
1	4	11	2	21	0.414
2	4	12	4	22	4
3	48	13	4.6	23	2
4	5.4	14	4	24	2
5	3	15	300	25	1
6	4	16	1	26	3
7	23.1, 55.4	17	1	27	1
8	3	18	4	28	3
9	3	19	2	29	2
10	1	20	4	30	2

PART 4. EQUILIBRIUM					
1	3	12	3	23	$\frac{R}{6}$
2	3	13	115.5, 57.7, 200		
3	1	14	1	24	1
4	2	15	3	25	1
5	2	16	1	26	4
6	2.68	17	2	27	2
7	2	18	6, 5	28	2
8	2	19	4	29	3
9	30.7, 169.3	20	2	30	11.2
10	300	21	1		
11	2	22	2		

PART 1. WORK AND ENERGY					
ข้อ	คำตอบ	ข้อ	คำตอบ	ข้อ	คำตอบ
1	2	9	2	17	1
2	4	10	3	18	2
3	1600 J	11	20 J	19	1.87
4	3	12	3	20	3
5	1	13	3	21	2 Watt
6	1	14	4	22	2
7	1	15	1	23	77.6
8	3	16	2		

PART 2. WORK AND ENERGY					
1	4	10	(1) 2	18	2
2	60		(2) 12.5 m.	19	3×10^{-4}
3	1	11	1	20	2,050
4	2	12	1	21	1
5	3	13	4	22	60
6	3	14	3	23	4
7	2	15	4	24	3
8	4	16	3		
9	4	17	1		

PART 3. WORK AND ENERGY					
1	200	9	1	17	1
2	0.1	10	3	18	2
3	4	11	3	19	4
4	1	12	3	20	4
5	4	13	4	21	4
6	12	14	7 N	22	1
7	3	15	1		
8	37.5 J	16	3		

PART 4. WORK AND ENERGY					
1	3	8	3	17	1
2	4	9	4	18	2
3	(1) 1	10	150 J	19	3
	(2) 3	11	4	20	2
4	3	12	1	21	1
5	3	13	2	22	3
6	1	14	3	23	1
7	2	15	1	24	2
8	3	16	4		

PART 1. MOMENTUM					
ข้อ	คำตอบ	ข้อ	คำตอบ	ข้อ	คำตอบ
1	2	8	3	15	4
2	1	9	4	16	2
3	2	10	3	17	4
4	3	11	2	18	10.5
5	2	12	4	19	3
6	3	13	2	20	4
7	4	14	1		

PART 2. MOMENTUM					
1	1	8	60	15	1
2	1	9	100 kg m/s	16	2
3	1	10	1	17	3
4	2	11	3	18	400
5	2	12	3	19	2
6	3	13	12.5	20	3
7	1	14	1	21	4

PART 3. MOMENTUM					
1	2	7	0.3	13	3
2	2	8	$V\eta = 3\sqrt{3}$ m/s	14	4
3	3	9	$VU = 3$ m/s	15	2
4	10	10	1	16	2
5	10	11	3	17	4
6	2	12	2		

PART 4. MOMENTUM					
1	1	8	2	15	1
2	1	9	2	16	4
3	1	10	1	17	3
4	4	11	8,000 N	18	4
5	1	12	4	19	3
6	1	13	4	20	9.5
7	3	14	2		