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1) $\int_1^5 \frac{x^4}{3} dx$

$X \text{ limits } = 1 \rightarrow 5$

$y_{\max} = \frac{5^4}{3} = 208.33$

Bounding Rectangle area = $4 \times 210 = 840$

$x = 0.1 r_x$, $y = 0.01 r_y \times 210$

X	y	$\frac{x^4}{3}$	M	N
2.2	119.7	4.809	0	1
2.5	37.8	13.021	0	2
1.8	0	3.5	1	3
4.5	189	136.688	1	4
2.5	10.5	13.021	2	5
2.4	161.7	14.415	2	6
4.8	138.6	146.947	3	7
4.3	21	113.96	4	8
4	159.6	85.333	4	9
4.7	88.2	162.656	5	10
3.8	163.8	69.905	5	11
2.4			5	11
4.7 2.4	6.3	11.059	6	13
4.7	18.9	162.656	6	14
4.2	161.4	103.723	6	15
2.5	128.1	13.021	6	16
3.3	56.7	39.531	6	17
5	126	208.333	8	18
3.4	60.9	44.545	8	19
2.1	84	6.483	8	20

$I = \frac{M}{N} \times A = \frac{8}{20} \times 840 = 336$

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موضوع التمرين:

Directions	Prob	C. Prob	Nos
Forward	40%	40%	0, 1, 2, 3
Backward	10%	50%	4
Left	30%	80%	5, 6, 7
Right	20%	70%	8, 9

⇒ let the distance be in meter

$F(0.45)$ $D(0.45)$
 $L(0.6)$ $R(0.6)$

Step	No.	Direction	X	Y
1	6	Left	-0.6	0
2	2	Forward	-0.6	0.45
3	3	Forward	-0.6	1.5
4	6	left	-1.2	1.5
5	8	Right	-0.6	1.5
6	5	left	-1.2	1.5
7	7	left	-1.8	1.5
8	7	left	-2.4	1.5
9	9	Right	-1.8	1.5
10	8	Right	-1.2	1.5
11	4	Backward	-1.2	1.05
12	8	Right	-0.6	1.05
13	2	Forward	-0.6	1.8
14	6	left	-1.2	1.8
15	2	Forward	-1.2	2.65
16	1	Forward	-1.2	3.3
17	3	Forward	-1.2	4.05
18	9	Right	-0.6	4.05
19	8	Right	0	4.05
20	4	Backward	0	3.6

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Graph:

