we have 36 outcomes
and each probability is
1/36

Total outcomes = { (1,1),(1,2),(1,3)(1,4),(1,5),(1,6),
(2,1),(2,2),(2,3)(2,4),(2,5),(2,6),
(3,1),(3,2),(3,3)(3,4),(3,5),(3,6),
(4,1),(4,2),(4,3)(4,4),(4,5),(4,6),
(5,1),(5,2),(5,3)(5,4),(5,5),(5,6),
(6,1),(6,2),(6,3)(6,4),(6,5),(6,6),
}

$p(x=1,y=2) = p(1,1) = 1/36$
$p(x=2,y=3) = p(1,2)+p(2,1) = 1/36 + 1/36 = 2/36$
$p(x=2,y=4) = p(2,2) = 1/36$
$p(x=3, y=4) = p(1,3)+p(3,1) = 2/36$
$p(x=3, y=5) = p(2,3)+p(3,2) = 2/36$
$p(x=3, y=6) = p(3,3) = 1/36$
$p(x=4, y=5) = p(4,1) + p(1,4) = 2/36$
$p(x=4, y=6) = p(4,2) + p(2,4) = 2/36$
$p(x=4, y=7) = p(4,3) + p(3,4) = 2/36$
$p(x=4, y=8) = p(4,4) = 1/36$
$p(x=5, y=6) = p(5,1)+p(1,5) = 2/36$
$p(x=5, y=7) = p(5,2)+p(2,5) = 2/36$
$p(x=5, y=8) = p(3,5)+p(5,3) = 2/36$
$p(x=5, y=9) = p(4,5)+p(5,4) = 2/36$
$p(x=5, y=10) = p(5,5) = 1/36$

$p(x=6, y=7) = p(1,6) + p(6,1) = 2/36$
$p(x=6, y=8) = p(2,6) + p(6,2) = 2/36$
$p(x=6, y=9) = p(3,6) + p(6,3) = 2/36$
$p(x=6, y=10) = p(4,6) + p(6,4) = 2/36$
$p(x=6, y=11) = p(5,6) + p(6,5) = 2/36$
$p(x=6, y=12) = p(6,6) = 1/36$

Table

x	2	3	4	5	6	7	8	9	10	11	12	TOTAL PROB
1	1/36											1/36
2		2/36	1/36									3/36
3			2/36	2/36	1/36							5/46
4				2/36	2/36	2/36	1/36					7/36
5					2/36	2/36	2/36	2/36	1/36			9/36
6						2/36	2/36	2/36	2/36	2/36	1/36	11/36
total	1/36	2/36	3/36	4/36	5/36	6/36	5/36	4/36	3/36	2/36	1/36	1

in order to marginal probability of x and y separate (simple get the value from the tables

Marginal Probability of X :

X	1	2	3	4	5	6	
p(X=x)	1/36	3/36	5/36	7/36	9/36	11/36	

Value of X
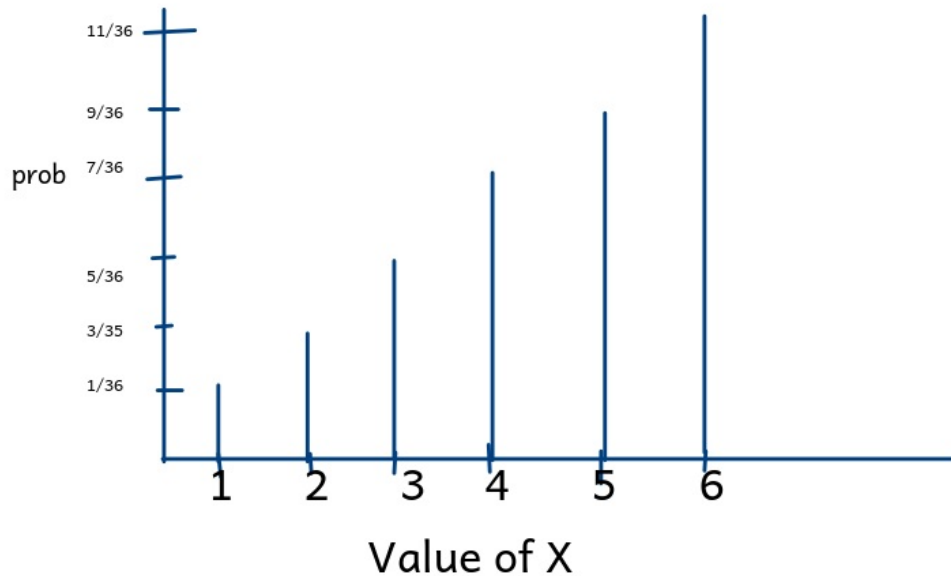
Marginal Probability of Y

Y	2	3	4	5	6	7	8	9	10	11	12		
p(Y=y)	1/36	2/36	3/36	4/36	5/36	6/36	5/36	4/36	3/36	2/36	1/36		

Prob

Bell shape

Value of y