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We have the joint distribution (distribution table)

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1						

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$					

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$				

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \setminus Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$			

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2						

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$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0					

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$				

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$			

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0				

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$			

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \setminus Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$						

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1					

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$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$				

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 2 Y = y)$						

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 2 Y = y)$	0					

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 2 Y = y)$	0	$\frac{1}{3}$	$\frac{3}{5}$	$\frac{5}{7}$	$\frac{7}{9}$	$\frac{9}{11}$

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We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 2 Y = y)$	0	$\frac{1}{3}$	$\frac{3}{5}$	$\frac{5}{7}$	$\frac{7}{9}$	$\frac{9}{11}$
$P(X = 3 Y = y)$	0	0	0	0	0	0

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$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 2 Y = y)$	0	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{7}$	$\frac{1}{9}$	$\frac{1}{11}$
$P(X = 3 Y = y)$	0	0	$\frac{1}{3}$	$\frac{1}{7}$	$\frac{1}{9}$	$\frac{1}{11}$

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$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 2 Y = y)$	0	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{1}{11}$
$P(X = 3 Y = y)$	0	0	$\frac{1}{3}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$

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$X \setminus Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 2 Y = y)$	0	$\frac{1}{3}$	$\frac{2}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 3 Y = y)$	0	0	$\frac{1}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 4 Y = y)$	0	0	0	$\frac{1}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 5 Y = y)$	0	0	0	0	$\frac{1}{9}$	$\frac{2}{11}$
$P(X = 6 Y = y)$	0	0	0	0	0	$\frac{1}{11}$

We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 2 Y = y)$	0	$\frac{1}{3}$	$\frac{2}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 3 Y = y)$	0	0	$\frac{1}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 4 Y = y)$	0	0	0	$\frac{1}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 5 Y = y)$	0	0	0	0	$\frac{1}{9}$	$\frac{2}{11}$
$P(X = 6 Y = y)$	0	0	0	0	0	$\frac{1}{11}$

and

x	$P(Y = 1 X)$	$P(Y = 2 X)$	$P(Y = 3 X)$	$P(Y = 4 X)$	$P(Y = 5 X)$	$P(Y = 6 X)$
1	$\frac{1}{11}$	$\frac{2}{11}$	$\frac{2}{11}$	$\frac{2}{11}$	$\frac{2}{11}$	$\frac{2}{11}$
2	0	$\frac{1}{9}$	$\frac{2}{9}$	$\frac{2}{9}$	$\frac{2}{9}$	$\frac{2}{9}$
3	0	0	$\frac{1}{7}$	$\frac{2}{7}$	$\frac{2}{7}$	$\frac{2}{7}$
4	0	0	0	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{2}{5}$
5	0	0	0	0	$\frac{1}{3}$	$\frac{2}{3}$
6	0	0	0	0	0	1

We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \setminus Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 2 Y = y)$	0	$\frac{1}{3}$	$\frac{2}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 3 Y = y)$	0	0	$\frac{1}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 4 Y = y)$	0	0	0	$\frac{1}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 5 Y = y)$	0	0	0	0	$\frac{1}{9}$	$\frac{2}{11}$
$P(X = 6 Y = y)$	0	0	0	0	0	$\frac{1}{11}$

and

x	$P(Y = 1 X)$	$P(Y = 2 X)$	$P(Y = 3 X)$	$P(Y = 4 X)$	$P(Y = 5 X)$	$P(Y = 6 X)$
1	$\frac{1}{11}$	$\frac{2}{11}$	$\frac{2}{11}$	$\frac{2}{11}$	$\frac{2}{11}$	$\frac{2}{11}$
2	0	$\frac{1}{9}$	$\frac{2}{9}$	$\frac{2}{9}$	$\frac{2}{9}$	$\frac{2}{9}$
3	0	0	$\frac{1}{7}$	$\frac{2}{7}$	$\frac{2}{7}$	$\frac{2}{7}$
4	0	0	0	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{2}{5}$
5	0	0	0	0	$\frac{1}{3}$	$\frac{2}{3}$
6	0	0	0	0	0	1

where we have used the short $P(Y = y|x)$ for $P(Y = y|X = x)$.

We have the joint distribution (distribution table) (see e.g. exercise 3.1.4)

$X \backslash Y$	1	2	3	4	5	6
1	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
2	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
3	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$	$\frac{1}{18}$
4	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$	$\frac{1}{18}$
5	0	0	0	0	$\frac{1}{36}$	$\frac{1}{18}$
6	0	0	0	0	0	$\frac{1}{36}$

We find the conditional distributions to be

$Y :$	1	2	3	4	5	6
$P(X = 1 Y = y)$	1	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 2 Y = y)$	0	$\frac{1}{3}$	$\frac{2}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 3 Y = y)$	0	0	$\frac{1}{5}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 4 Y = y)$	0	0	0	$\frac{1}{7}$	$\frac{2}{9}$	$\frac{2}{11}$
$P(X = 5 Y = y)$	0	0	0	0	$\frac{1}{9}$	$\frac{2}{11}$
$P(X = 6 Y = y)$	0	0	0	0	0	$\frac{1}{11}$

and

x	$P(Y = 1 X)$	$P(Y = 2 X)$	$P(Y = 3 X)$	$P(Y = 4 X)$	$P(Y = 5 X)$	$P(Y = 6 X)$
1	$\frac{1}{11}$	$\frac{2}{11}$	$\frac{2}{11}$	$\frac{2}{11}$	$\frac{2}{11}$	$\frac{2}{11}$
2	0	$\frac{1}{9}$	$\frac{2}{9}$	$\frac{2}{9}$	$\frac{2}{9}$	$\frac{2}{9}$
3	0	0	$\frac{1}{7}$	$\frac{2}{7}$	$\frac{2}{7}$	$\frac{2}{7}$
4	0	0	0	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{2}{5}$
5	0	0	0	0	$\frac{1}{3}$	$\frac{2}{3}$
6	0	0	0	0	0	1

where we have used the short $P(Y = y|x)$ for $P(Y = y|X = x)$.

Such that

Y: 1 2 3 4 5 6

$Y :$ 1 2 3 4 5 6
 $E(X|Y = y)$

$Y :$	1	2	3	4	5	6
$E(X Y = y)$	1					

$Y :$	1	2	3	4	5	6
$E(X Y = y)$	1	$\frac{4}{3}$				

$Y :$	1	2	3	4	5	6
$E(X Y = y)$	1	$\frac{4}{3}$	$\frac{9}{5}$			

$Y :$	1	2	3	4	5	6
$E(X Y = y)$	1	$\frac{4}{3}$	$\frac{9}{5}$	$\frac{16}{7}$	$\frac{25}{9}$	$\frac{36}{11}$

$Y :$	1	2	3	4	5	6
$E(X Y = y)$	1	$\frac{4}{3}$	$\frac{9}{5}$	$\frac{16}{7}$	$\frac{25}{9}$	$\frac{36}{11}$

and

x	$E(Y X = x)$
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$Y :$	1	2	3	4	5	6
$E(X Y = y)$	1	$\frac{4}{3}$	$\frac{9}{5}$	$\frac{16}{7}$	$\frac{25}{9}$	$\frac{36}{11}$

and

x	$E(Y X = x)$
1	$\frac{41}{11}$

	$Y :$	1	2	3	4	5	6
	$E(X Y = y)$	1	$\frac{4}{3}$	$\frac{9}{5}$	$\frac{16}{7}$	$\frac{25}{9}$	$\frac{36}{11}$
and							
	x	$E(Y X = x)$					
	1	$\frac{41}{11}$					
	2	$\frac{38}{9}$					

	$Y :$	1	2	3	4	5	6
	$E(X Y = y)$	1	$\frac{4}{3}$	$\frac{9}{5}$	$\frac{16}{7}$	$\frac{25}{9}$	$\frac{36}{11}$
and							
	x	$E(Y X = x)$					
	1	$\frac{41}{11}$					
	2	$\frac{38}{9}$					
	3	$\frac{9}{7}$					

	$Y :$	1	2	3	4	5	6
	$E(X Y = y)$	1	$\frac{4}{3}$	$\frac{9}{5}$	$\frac{16}{7}$	$\frac{25}{9}$	$\frac{36}{11}$
and							
x	$E(Y X = x)$						
1	$\frac{41}{11}$						
2	$\frac{38}{9}$						
3	$\frac{33}{7}$						
4	$\frac{26}{5}$						
5	$\frac{17}{3}$						
6	6						