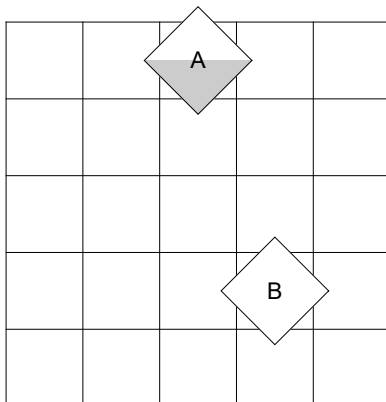


Popolna in pogojna verjetnost

V danem svetu je slučajno izbran en lik, X . 1. Koliko je verjetnost dogodka S , da je izbran lik a) trikotnik; b) kvadrat; c) da je izbran lik bel? 2. Recimo, da se je dogodek S iz prejšnjega vprašanja zgodil. Koliko je verjetnost, da je bil izbran lik A ? 3. Enako vprašanje za lik B . Krog pomeni, da ne poznamo oblike, ki je lahko trikotnik, kvadrat ali petkotnik. Pol siv lik pa pomeni, da ne poznamo barve, ki je lahko bela ali siva. Če je verjetnost dogodka S enaka 0 , potem pogojna vrednost ni določena (pišemo U).

naloga+rešitev

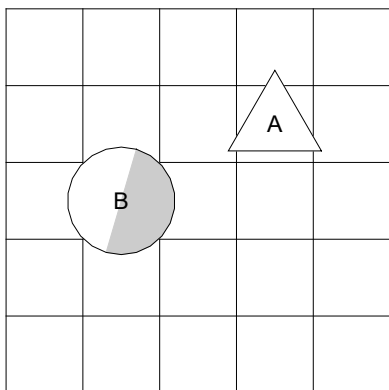


S	$P(S)$	$P(X = A S)$	$P(X = B S)$
$bel(X)$	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
$siv(X)$	$\frac{1}{4}$	1	0
$\neg trikotnik(X)$	1	$\frac{1}{2}$	$\frac{1}{2}$
$\neg siv(X)$	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
$siv(X) \wedge trikotnik(X)$	0	U	U
$siv(X) \wedge \neg trikotnik(X)$	1	$\frac{1}{2}$	$\frac{1}{2}$
$\neg siv(X) \wedge trikotnik(X)$	0	U	U
$\neg siv(X) \wedge \neg petkotnik(X)$	1	$\frac{1}{2}$	$\frac{1}{2}$



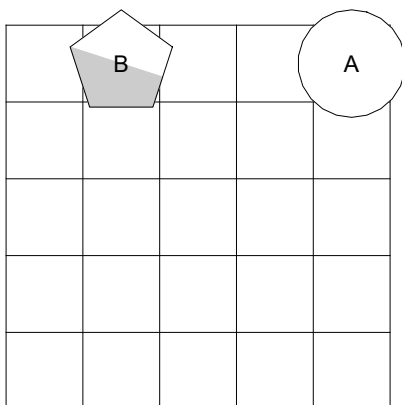
Logika d. o. o.

1.



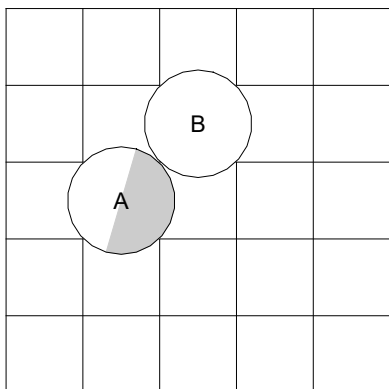
S	P(S)	P(X = A S)	P(X = B S)
petkotnik(X)			
kvadrat(X)			
\neg kvadrat(X)			
\neg siv(X)			
$\text{bel}(X) \vee \text{trikotnik}(X)$			
$\text{bel}(X) \wedge \neg \text{trikotnik}(X)$			
$\neg \text{siv}(X) \wedge \text{petkotnik}(X)$			
$\neg \text{siv}(X) \wedge \neg \text{trikotnik}(X)$			

2.



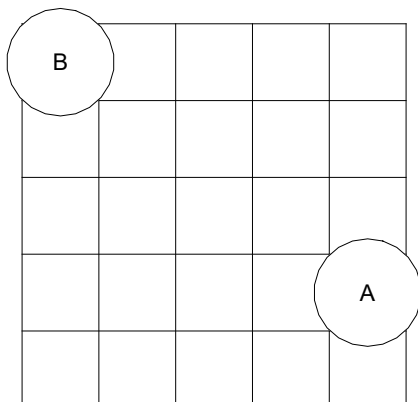
S	P(S)	P(X = A S)	P(X = B S)
$\text{bel}(X)$			
trikotnik(X)			
$\neg \text{bel}(X)$			
$\neg \text{trikotnik}(X)$			
$\text{bel}(X) \vee \text{kvadrat}(X)$			
$\text{bel}(X) \wedge \neg \text{kvadrat}(X)$			
$\neg \text{bel}(X) \wedge \text{kvadrat}(X)$			
$\neg \text{bel}(X) \wedge \neg \text{kvadrat}(X)$			

3.



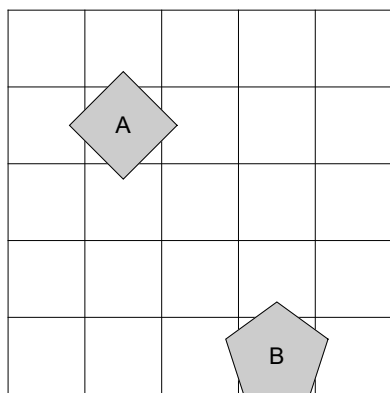
S	P(S)	P(X = A S)	P(X = B S)
$\text{siv}(X)$			
trikotnik(X)			
$\neg \text{kvadrat}(X)$			
$\neg \text{petkotnik}(X)$			
$\text{siv}(X) \wedge \text{trikotnik}(X)$			
$\text{siv}(X) \wedge \neg \text{petkotnik}(X)$			
$\neg \text{siv}(X) \wedge \text{kvadrat}(X)$			
$\neg \text{siv}(X) \wedge \neg \text{kvadrat}(X)$			

4.



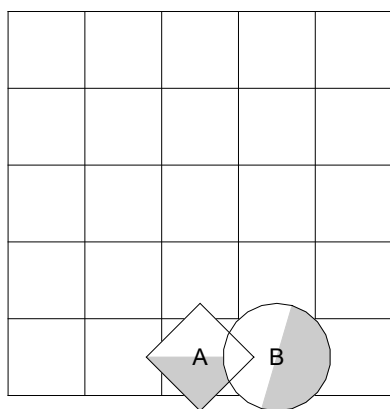
S	P(S)	P(X = A S)	P(X = B S)
kvadrat(X)			
bel(X)			
\neg trikotnik(X)			
\neg siv(X)			
$siv(X) \wedge kvadrat(X)$			
$siv(X) \wedge \neg$ petkotnik(X)			
\neg bel(X) \wedge kvadrat(X)			
\neg siv(X) \wedge \neg petkotnik(X)			

5.



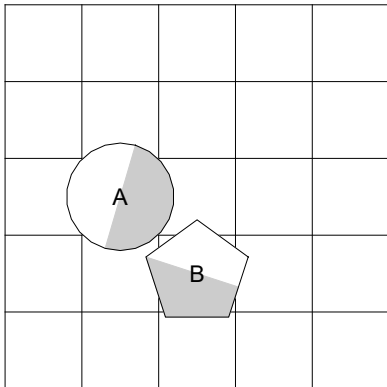
S	P(S)	P(X = A S)	P(X = B S)
kvadrat(X)			
siv(X)			
\neg siv(X)			
\neg trikotnik(X)			
$siv(X) \vee$ trikotnik(X)			
$siv(X) \wedge \neg$ kvadrat(X)			
\neg siv(X) \wedge petkotnik(X)			
\neg bel(X) \wedge \neg trikotnik(X)			

6.



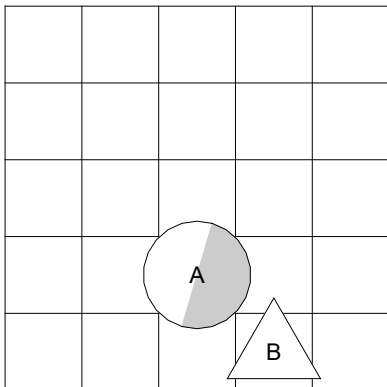
S	P(S)	P(X = A S)	P(X = B S)
trikotnik(X)			
kvadrat(X)			
\neg bel(X)			
\neg kvadrat(X)			
$siv(X) \wedge$ petkotnik(X)			
$siv(X) \wedge \neg$ petkotnik(X)			
\neg bel(X) \wedge petkotnik(X)			
\neg siv(X) \wedge \neg trikotnik(X)			

7.



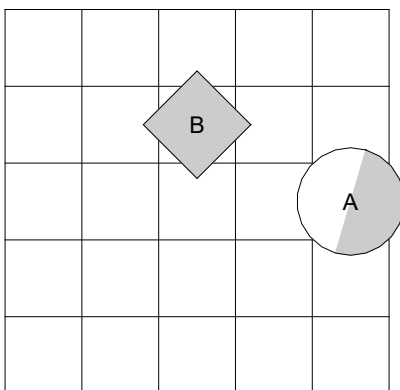
S	P(S)	P(X = A S)	P(X = B S)
trikotnik(X)			
siv(X)			
\neg kvadrat(X)			
\neg bel(X)			
bel(X) \vee petkotnik(X)			
siv(X) \wedge \neg petkotnik(X)			
\neg siv(X) \wedge petkotnik(X)			
\neg siv(X) \wedge \neg trikotnik(X)			

8.



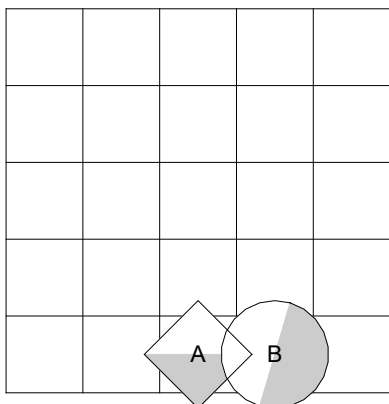
S	P(S)	P(X = A S)	P(X = B S)
trikotnik(X)			
siv(X)			
\neg bel(X)			
\neg trikotnik(X)			
siv(X) \wedge trikotnik(X)			
bel(X) \wedge \neg kvadrat(X)			
\neg siv(X) \wedge petkotnik(X)			
\neg bel(X) \wedge \neg trikotnik(X)			

9.



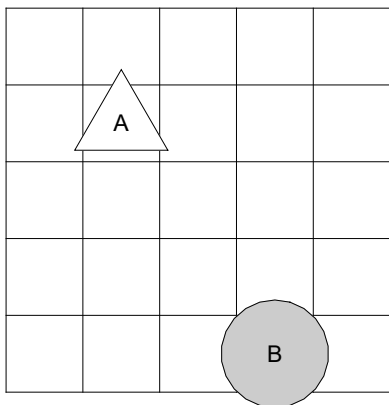
S	P(S)	P(X = A S)	P(X = B S)
petkotnik(X)			
siv(X)			
\neg siv(X)			
\neg kvadrat(X)			
siv(X) \wedge petkotnik(X)			
siv(X) \wedge \neg kvadrat(X)			
\neg bel(X) \wedge kvadrat(X)			
\neg siv(X) \wedge \neg trikotnik(X)			

10.



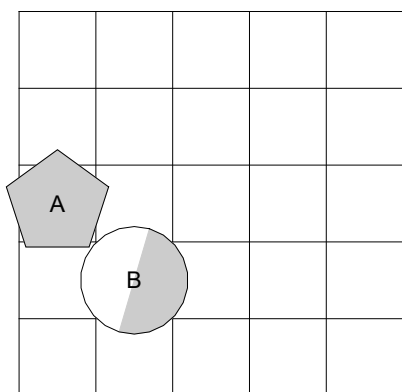
S	P(S)	P(X = A S)	P(X = B S)
bel(X)			
petkotnik(X)			
\neg trikotnik(X)			
\neg kvadrat(X)			
siv(X) \vee kvadrat(X)			
bel(X) \wedge \neg kvadrat(X)			
\neg bel(X) \wedge petkotnik(X)			
\neg bel(X) \wedge \neg trikotnik(X)			

11.



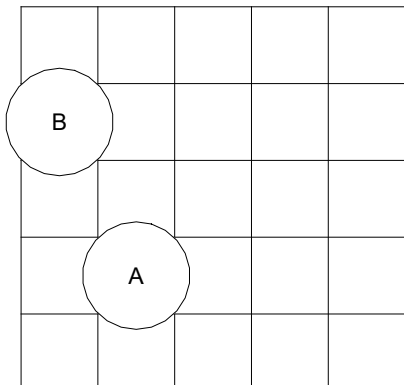
S	P(S)	P(X = A S)	P(X = B S)
kvadrat(X)			
siv(X)			
\neg bel(X)			
\neg siv(X)			
siv(X) \vee trikotnik(X)			
bel(X) \wedge \neg petkotnik(X)			
\neg bel(X) \wedge kvadrat(X)			
\neg siv(X) \wedge \neg petkotnik(X)			

12.



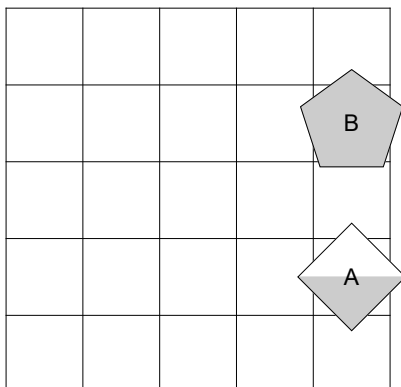
S	P(S)	P(X = A S)	P(X = B S)
trikotnik(X)			
siv(X)			
\neg siv(X)			
\neg bel(X)			
siv(X) \wedge petkotnik(X)			
bel(X) \wedge \neg kvadrat(X)			
\neg bel(X) \wedge trikotnik(X)			
\neg bel(X) \wedge \neg trikotnik(X)			

13.



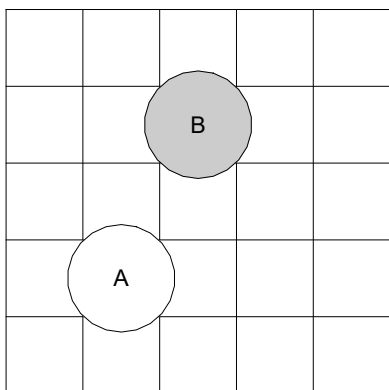
S	P(S)	P(X = A S)	P(X = B S)
petkotnik(X)			
kvadrat(X)			
\neg bel(X)			
\neg petkotnik(X)			
siv(X) \vee petkotnik(X)			
bel(X) \wedge \neg trikotnik(X)			
\neg siv(X) \wedge trikotnik(X)			
\neg siv(X) \wedge \neg kvadrat(X)			

14.



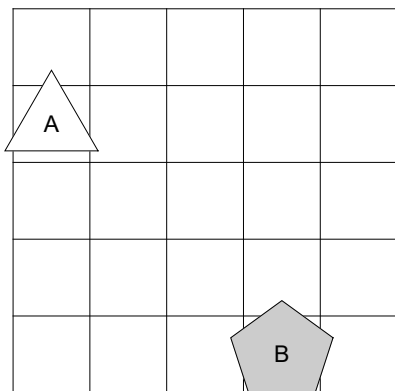
S	P(S)	P(X = A S)	P(X = B S)
kvadrat(X)			
bel(X)			
\neg siv(X)			
\neg trikotnik(X)			
bel(X) \vee kvadrat(X)			
bel(X) \wedge \neg kvadrat(X)			
\neg siv(X) \wedge kvadrat(X)			
\neg bel(X) \wedge \neg kvadrat(X)			

15.



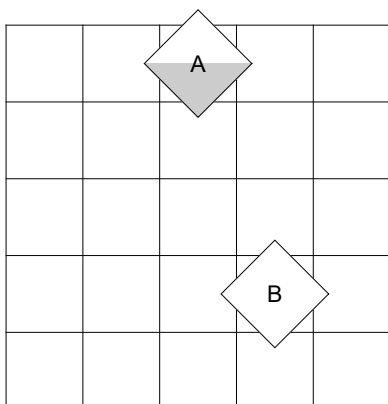
S	P(S)	P(X = A S)	P(X = B S)
petkotnik(X)			
bel(X)			
\neg siv(X)			
\neg bel(X)			
bel(X) \vee trikotnik(X)			
bel(X) \wedge \neg trikotnik(X)			
\neg bel(X) \wedge petkotnik(X)			
\neg siv(X) \wedge \neg trikotnik(X)			

16.



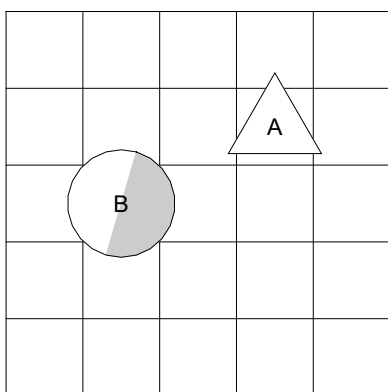
S	P(S)	P(X = A S)	P(X = B S)
bel(X)			
petkotnik(X)			
\neg petkotnik(X)			
\neg trikotnik(X)			
bel(X) \vee petkotnik(X)			
siv(X) \wedge \neg kvadrat(X)			
\neg siv(X) \wedge trikotnik(X)			
\neg bel(X) \wedge \neg petkotnik(X)			

17.



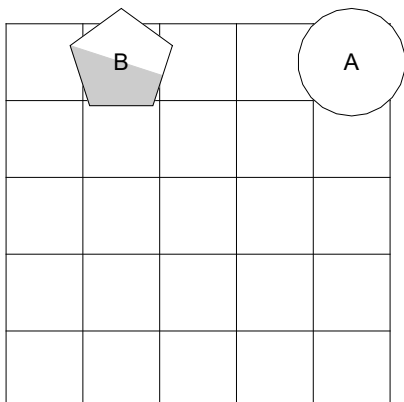
S	P(S)	P(X = A S)	P(X = B S)
bel(X)			
siv(X)			
\neg trikotnik(X)			
\neg siv(X)			
siv(X) \wedge trikotnik(X)			
siv(X) \wedge \neg trikotnik(X)			
\neg siv(X) \wedge trikotnik(X)			
\neg siv(X) \wedge \neg petkotnik(X)			

18.



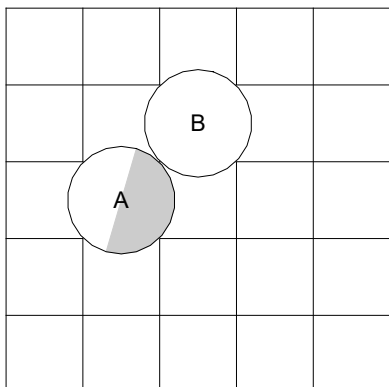
S	P(S)	P(X = A S)	P(X = B S)
petkotnik(X)			
kvadrat(X)			
\neg kvadrat(X)			
\neg siv(X)			
bel(X) \vee trikotnik(X)			
bel(X) \wedge \neg trikotnik(X)			
\neg siv(X) \wedge petkotnik(X)			
\neg siv(X) \wedge \neg trikotnik(X)			

19.



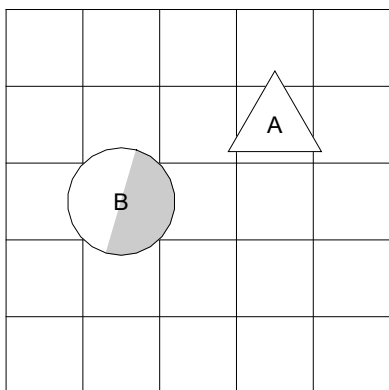
S	P(S)	P(X = A S)	P(X = B S)
bel(X)			
trikotnik(X)			
\neg bel(X)			
\neg trikotnik(X)			
bel(X) \vee kvadrat(X)			
bel(X) \wedge \neg kvadrat(X)			
\neg bel(X) \wedge kvadrat(X)			
\neg bel(X) \wedge \neg kvadrat(X)			

20.



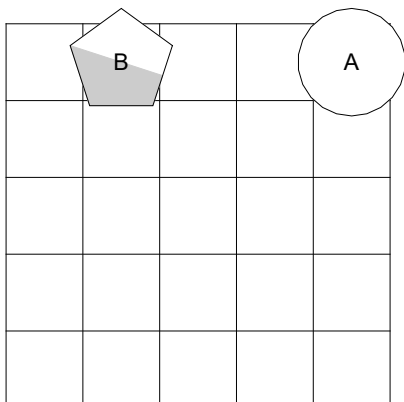
S	P(S)	P(X = A S)	P(X = B S)
siv(X)			
trikotnik(X)			
\neg kvadrat(X)			
\neg petkotnik(X)			
siv(X) \wedge trikotnik(X)			
siv(X) \wedge \neg petkotnik(X)			
\neg siv(X) \wedge kvadrat(X)			
\neg siv(X) \wedge \neg kvadrat(X)			

1.



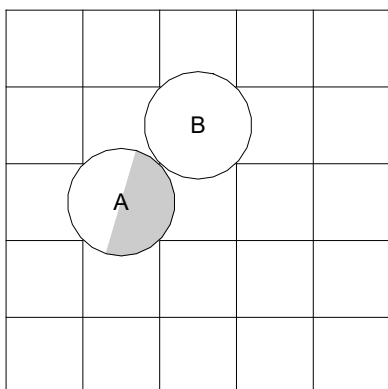
S	P(S)	P(X = A S)	P(X = B S)
petkotnik(X)	$\frac{1}{6}$	0	1
kvadrat(X)	$\frac{1}{6}$	0	1
\neg kvadrat(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
\neg siv(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
bel(X) \vee trikotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
bel(X) \wedge \neg trikotnik(X)	$\frac{1}{6}$	0	1
\neg siv(X) \wedge petkotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
\neg siv(X) \wedge \neg trikotnik(X)	$\frac{1}{6}$	0	1

2.



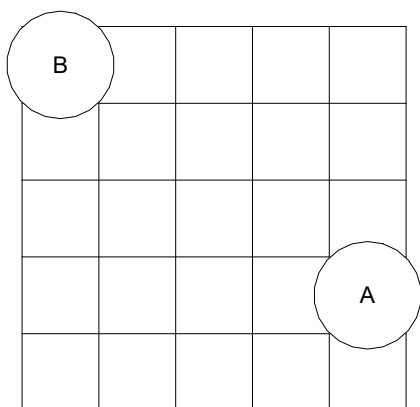
S	P(S)	P(X = A S)	P(X = B S)
bel(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
trikotnik(X)	$\frac{1}{6}$	1	0
\neg bel(X)	$\frac{1}{4}$	0	1
\neg trikotnik(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
bel(X) v kvadrat(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
bel(X) \wedge \neg kvadrat(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
\neg bel(X) \wedge kvadrat(X)	0	U	U
\neg bel(X) \wedge \neg kvadrat(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$

3.



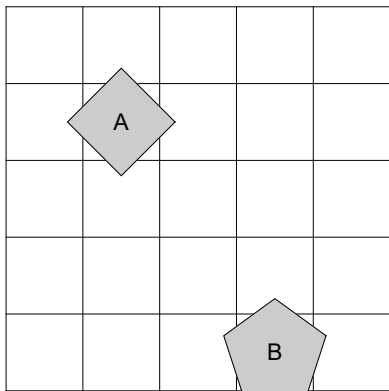
S	P(S)	P(X = A S)	P(X = B S)
siv(X)	$\frac{1}{4}$	1	0
trikotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
\neg kvadrat(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
\neg petkotnik(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) \wedge trikotnik(X)	$\frac{1}{12}$	1	0
siv(X) \wedge \neg petkotnik(X)	$\frac{1}{6}$	1	0
\neg siv(X) \wedge kvadrat(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
\neg siv(X) \wedge \neg kvadrat(X)	$\frac{11}{12}$	$\frac{5}{11}$	$\frac{6}{11}$

4.



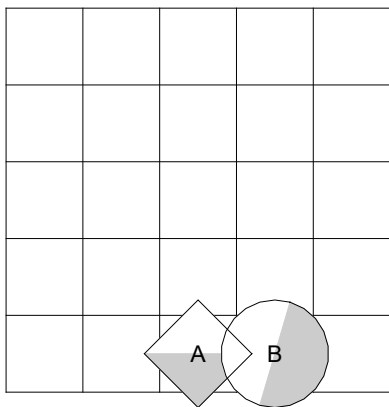
S	P(S)	P(X = A S)	P(X = B S)
kvadrat(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
\neg trikotnik(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
\neg siv(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) \wedge kvadrat(X)	0	U	U
siv(X) \wedge \neg petkotnik(X)	0	U	U
\neg bel(X) \wedge kvadrat(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
\neg siv(X) \wedge \neg petkotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$

5.



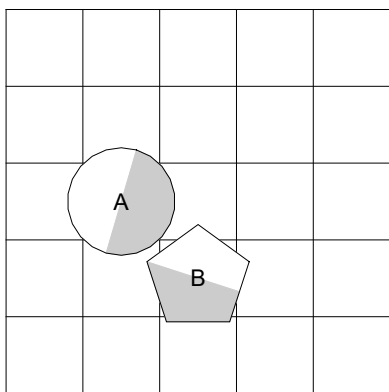
S	P(S)	P(X = A S)	P(X = B S)
kvadrat(X)	$\frac{1}{2}$	1	0
siv(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
\neg siv(X)	0	U	U
\neg trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) \vee trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) \wedge \neg kvadrat(X)	$\frac{1}{2}$	0	1
\neg siv(X) \wedge petkotnik(X)	$\frac{1}{2}$	0	1
\neg bel(X) \wedge \neg trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$

6.



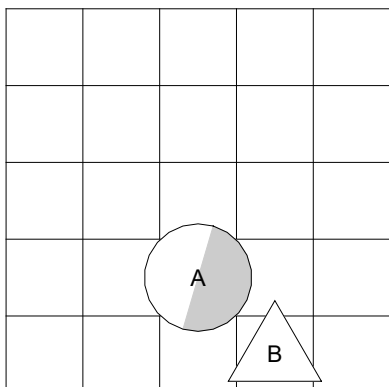
S	P(S)	P(X = A S)	P(X = B S)
trikotnik(X)	$\frac{1}{6}$	0	1
kvadrat(X)	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{4}$
\neg bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
\neg kvadrat(X)	$\frac{1}{3}$	0	1
siv(X) \wedge petkotnik(X)	$\frac{1}{12}$	0	1
siv(X) \wedge \neg petkotnik(X)	$\frac{5}{12}$	$\frac{3}{5}$	$\frac{2}{5}$
\neg bel(X) \wedge petkotnik(X)	$\frac{1}{12}$	0	1
\neg siv(X) \wedge \neg trikotnik(X)	$\frac{5}{12}$	$\frac{3}{5}$	$\frac{2}{5}$

7.



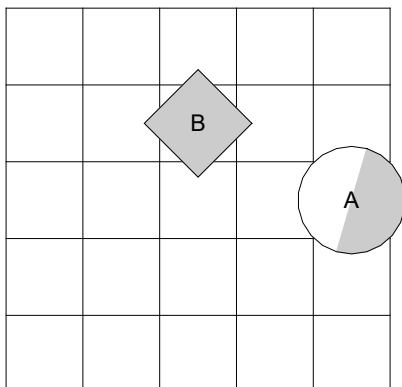
S	P(S)	P(X = A S)	P(X = B S)
trikotnik(X)	$\frac{1}{6}$	1	0
siv(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
\neg kvadrat(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
\neg bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) \vee petkotnik(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
siv(X) \wedge \neg petkotnik(X)	$\frac{1}{6}$	1	0
\neg siv(X) \wedge petkotnik(X)	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{3}{4}$
\neg siv(X) \wedge \neg trikotnik(X)	$\frac{11}{12}$	$\frac{5}{11}$	$\frac{6}{11}$

8.



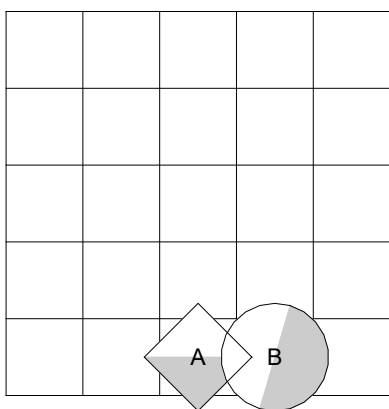
S	P(S)	P(X = A S)	P(X = B S)
trikotnik(X)	$\frac{2}{3}$	$\frac{1}{4}$	$\frac{3}{4}$
siv(X)	$\frac{1}{4}$	1	0
\neg bel(X)	$\frac{1}{4}$	1	0
\neg trikotnik(X)	$\frac{1}{3}$	1	0
siv(X) \wedge trikotnik(X)	$\frac{1}{12}$	1	0
bel(X) \wedge \neg kvadrat(X)	$\frac{11}{12}$	$\frac{5}{11}$	$\frac{6}{11}$
\neg siv(X) \wedge petkotnik(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
\neg bel(X) \wedge \neg trikotnik(X)	$\frac{5}{12}$	1	0

9.



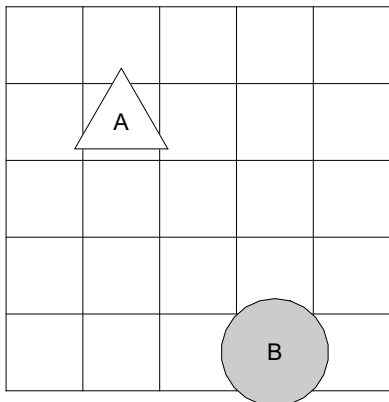
S	P(S)	P(X = A S)	P(X = B S)
petkotnik(X)	$\frac{1}{6}$	1	0
siv(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
\neg siv(X)	$\frac{1}{4}$	1	0
\neg kvadrat(X)	$\frac{1}{3}$	1	0
siv(X) \wedge petkotnik(X)	$\frac{1}{12}$	1	0
siv(X) \wedge \neg kvadrat(X)	$\frac{1}{6}$	1	0
\neg bel(X) \wedge kvadrat(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
\neg siv(X) \wedge \neg trikotnik(X)	$\frac{1}{6}$	1	0

10.



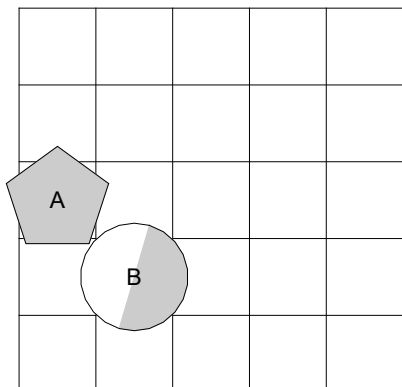
S	P(S)	P(X = A S)	P(X = B S)
bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
petkotnik(X)	$\frac{1}{6}$	0	1
\neg trikotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
\neg kvadrat(X)	$\frac{1}{3}$	0	1
siv(X) \vee kvadrat(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
bel(X) \wedge \neg kvadrat(X)	$\frac{1}{6}$	0	1
\neg bel(X) \wedge petkotnik(X)	$\frac{7}{12}$	$\frac{3}{7}$	$\frac{4}{7}$
\neg bel(X) \wedge \neg trikotnik(X)	$\frac{11}{12}$	$\frac{6}{11}$	$\frac{5}{11}$

11.



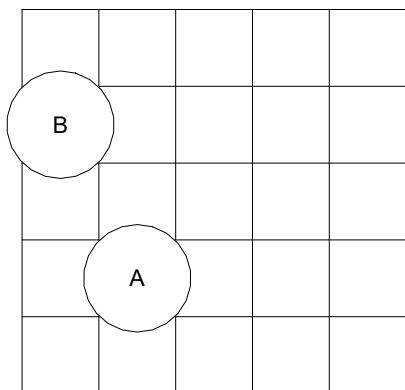
S	P(S)	P(X = A S)	P(X = B S)
kvadrat(X)	$\frac{1}{6}$	0	1
siv(X)	$\frac{1}{2}$	0	1
\neg bel(X)	$\frac{1}{2}$	0	1
\neg siv(X)	$\frac{1}{2}$	1	0
siv(X) \vee trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) \wedge \neg petkotnik(X)	$\frac{1}{2}$	1	0
\neg bel(X) \wedge kvadrat(X)	$\frac{1}{2}$	0	1
\neg siv(X) \wedge \neg petkotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$

12.



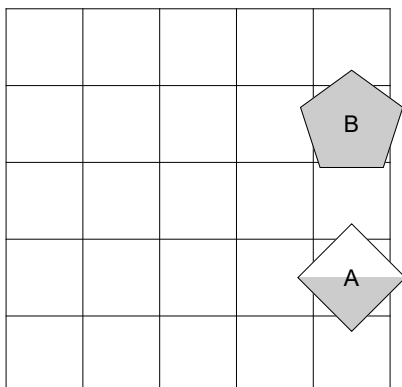
S	P(S)	P(X = A S)	P(X = B S)
trikotnik(X)	$\frac{1}{6}$	0	1
siv(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
\neg siv(X)	$\frac{1}{4}$	0	1
\neg bel(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
siv(X) \wedge petkotnik(X)	$\frac{7}{12}$	$\frac{6}{7}$	$\frac{1}{7}$
bel(X) \wedge \neg kvadrat(X)	$\frac{11}{12}$	$\frac{6}{11}$	$\frac{5}{11}$
\neg bel(X) \wedge trikotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
\neg bel(X) \wedge \neg trikotnik(X)	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{4}$

13.



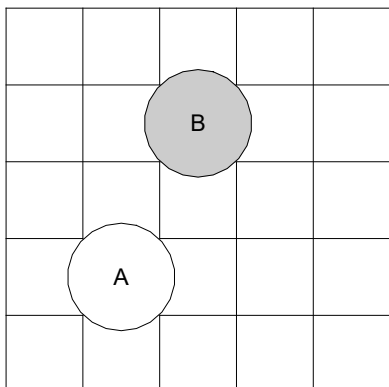
S	P(S)	P(X = A S)	P(X = B S)
petkotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
kvadrat(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
\neg bel(X)	0	U	U
\neg petkotnik(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) \vee petkotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) \wedge \neg trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
\neg siv(X) \wedge trikotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
\neg siv(X) \wedge \neg kvadrat(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$

14.



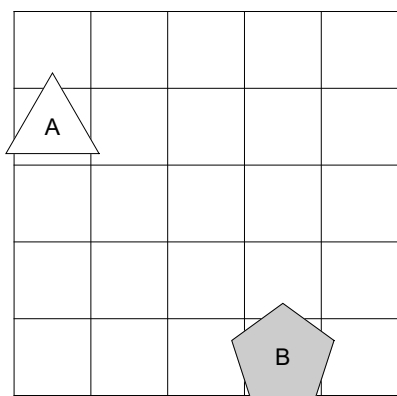
S	P(S)	P(X = A S)	P(X = B S)
kvadrat(X)	$\frac{1}{2}$	1	0
bel(X)	$\frac{1}{4}$	1	0
\neg siv(X)	$\frac{1}{4}$	1	0
\neg trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) v kvadrat(X)	$\frac{1}{2}$	1	0
bel(X) \wedge \neg kvadrat(X)	0	U	U
\neg siv(X) \wedge kvadrat(X)	$\frac{1}{4}$	1	0
\neg bel(X) \wedge \neg kvadrat(X)	$\frac{1}{2}$	0	1

15.



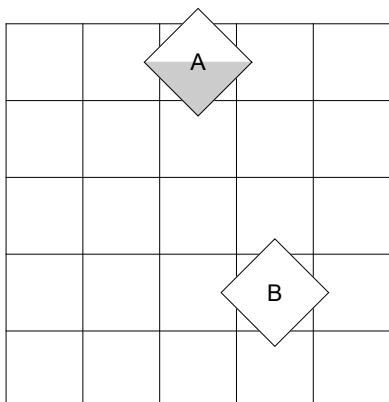
S	P(S)	P(X = A S)	P(X = B S)
petkotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X)	$\frac{1}{2}$	1	0
\neg siv(X)	$\frac{1}{2}$	1	0
\neg bel(X)	$\frac{1}{2}$	0	1
bel(X) v trikotnik(X)	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{4}$
bel(X) \wedge \neg trikotnik(X)	$\frac{1}{3}$	1	0
\neg bel(X) \wedge petkotnik(X)	$\frac{1}{6}$	0	1
\neg siv(X) \wedge \neg trikotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$

16.



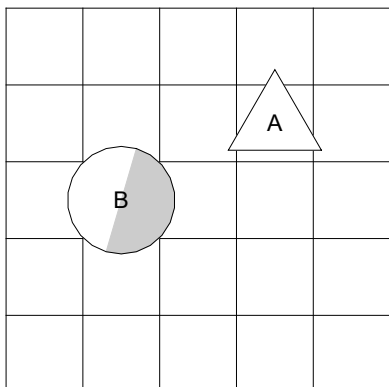
S	P(S)	P(X = A S)	P(X = B S)
bel(X)	$\frac{1}{2}$	1	0
petkotnik(X)	$\frac{1}{2}$	0	1
\neg petkotnik(X)	$\frac{1}{2}$	1	0
\neg trikotnik(X)	$\frac{1}{2}$	0	1
bel(X) v petkotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) \wedge \neg kvadrat(X)	$\frac{1}{2}$	0	1
\neg siv(X) \wedge trikotnik(X)	$\frac{1}{2}$	1	0
\neg bel(X) \wedge \neg petkotnik(X)	0	U	U

17.



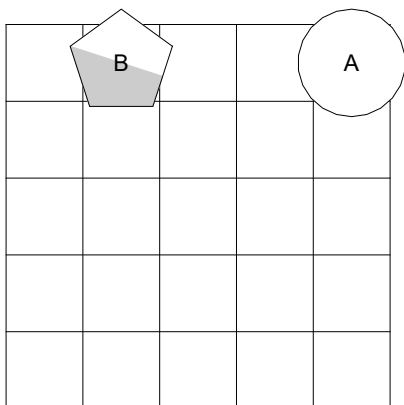
S	P(S)	P(X = A S)	P(X = B S)
bel(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
siv(X)	$\frac{1}{4}$	1	0
\neg trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
\neg siv(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
siv(X) \wedge trikotnik(X)	0	U	U
siv(X) \wedge \neg trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
\neg siv(X) \wedge trikotnik(X)	0	U	U
\neg siv(X) \wedge \neg petkotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$

18.



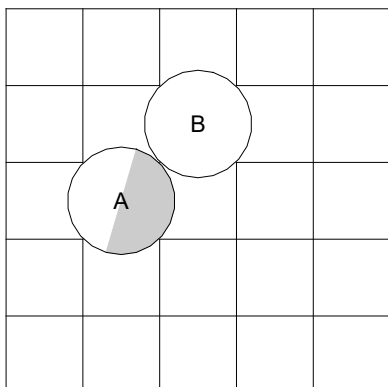
S	P(S)	P(X = A S)	P(X = B S)
petkotnik(X)	$\frac{1}{6}$	0	1
kvadrat(X)	$\frac{1}{6}$	0	1
\neg kvadrat(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
\neg siv(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
bel(X) \vee trikotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
bel(X) \wedge \neg trikotnik(X)	$\frac{1}{6}$	0	1
\neg siv(X) \wedge petkotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
\neg siv(X) \wedge \neg trikotnik(X)	$\frac{1}{6}$	0	1

19.



S	P(S)	P(X = A S)	P(X = B S)
bel(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
trikotnik(X)	$\frac{1}{6}$	1	0
\neg bel(X)	$\frac{1}{4}$	0	1
\neg trikotnik(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
bel(X) \vee kvadrat(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
bel(X) \wedge \neg kvadrat(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
\neg bel(X) \wedge kvadrat(X)	0	U	U
\neg bel(X) \wedge \neg kvadrat(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$

20.



S	P(S)	P(X = A S)	P(X = B S)
siv(X)	$\frac{1}{4}$	1	0
trikotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
\neg kvadrat(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
\neg petkotnik(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
$siv(X) \wedge$ trikotnik(X)	$\frac{1}{12}$	1	0
$siv(X) \wedge \neg$ petkotnik(X)	$\frac{1}{6}$	1	0
\neg siv(X) \wedge kvadrat(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
\neg siv(X) $\wedge \neg$ kvadrat(X)	$\frac{11}{12}$	$\frac{5}{11}$	$\frac{6}{11}$

Referenca : Total Probability and Bayes ' s Theorem from the Wolfram Demonstrations Project
[http : // demonstrations.wolfram.com / TotalProbabilityAndBayessTheorem / Contributed](http://demonstrations.wolfram.com/TotalProbabilityAndBayessTheorem/Contributed)
 by : Izidor Hafner