2.4
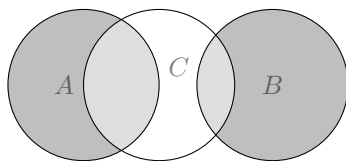
1. $S = \{(1,1),(1,2),(1,3),(1,4),(1,5),(1,6),(2,1),(2,3),(2,4),(2,5),(2,6)$
   $(3,1),(3,2),(3,3),(3,4),(3,5),(3,6),(4,1),(4,2),(4,3),(4,4),(4,5),(4,6)$
   $(5,1),(5,2),(5,3),(5,4),(5,5),(5,6),(6,1),(6,2),(6,3),(6,4),(6,5),(6,6)\}$

2. $S = \{x,y | 0 \le x \le 6, 0 \le y \le 6\}$

2.6
$S = \{A_1A_2, A_1A_3, A_1A_4, A_2A_3, A_2A_4, A_3A_4\}$
2.8

1. $A = \{(3,6),(4,5),(4,6),(5,4),(5,5),(5.6),(6,3),(6,4),(6,5),(6,6)\}$

2. $B = \{(1,2),(2,1),(2,3),(2,4),(2,5),(2,6),(3,2),(4,2),(5,2),(6,2)\}$

3. $C = \{(5,1),(5,2),(5,3),(5,4),(5,5),(5,6),(6,1),(6,2),(6,3),(6,4),(6,5),(6,6)\}$

4. $A \cap C = \{(5,4),(5,5),(5.6),(6,3),(6,4),(6,5),(6,6)\}$

5. $A \cap B = \{\emptyset\}$

6. $B \cap C = \{(5,2),(6,2)\}$

7.

2.10

1. $S = \{NNN, NNF, NFN, NFF, FNN, FNF, FFN, FFF\}$

2. $E = \{NFF, FNF, FFN, FFF\}$

3. The second river is always safe to fish.

2.14
2.16
2.22
2.26
2.28
2.30
2.34
2.38
2.46
2.50
2.52
2.56
2.58
2.64
2.74
2.80
2.86

1. fill

2. fill

2.90
2.92
2.96
2.98
2.104
2.118
2.124