

(%i1)  $W:\{1,2,3,4,5,6\};$

(%o1)  $\{1, 2, 3, 4, 5, 6\}$

(%i2)  $S:\text{cartesian\_product}(W,W,W,W);$

<< Ausdruck zu lang um angezeigt zu werden! >>

(%i3)  $A:\text{subset}(S,\text{lambda}(e,\text{is}(e[1]\#6 \text{ and } e[2]\#6 \text{ and } e[3]\#6 \text{ and } e[4]=6)));$

(%o3)  $\{[1, 1, 1, 6], [1, 1, 2, 6], [1, 1, 3, 6], [1, 1, 4, 6], [1, 1, 5, 6], [1, 2, 1, 6], [1, 2, 2, 6], [1, 2, 3, 6], [1, 2, 4, 6], [1, 2, 5, 6], [1, 3, 1, 6], [1, 3, 2, 6], [1, 3, 3, 6], [1, 3, 4, 6], [1, 3, 5, 6], [1, 4, 1, 6], [1, 4, 2, 6], [1, 4, 3, 6], [1, 4, 4, 6], [1, 4, 5, 6], [1, 5, 1, 6], [1, 5, 2, 6], [1, 5, 3, 6], [1, 5, 4, 6], [1, 5, 5, 6], [2, 1, 1, 6], [2, 1, 2, 6], [2, 1, 3, 6], [2, 1, 4, 6], [2, 1, 5, 6], [2, 2, 1, 6], [2, 2, 2, 6], [2, 2, 3, 6], [2, 2, 4, 6], [2, 2, 5, 6], [2, 3, 1, 6], [2, 3, 2, 6], [2, 3, 3, 6], [2, 3, 4, 6], [2, 3, 5, 6], [2, 4, 1, 6], [2, 4, 2, 6], [2, 4, 3, 6], [2, 4, 4, 6], [2, 4, 5, 6], [2, 5, 1, 6], [2, 5, 2, 6], [2, 5, 3, 6], [2, 5, 4, 6], [2, 5, 5, 6], [3, 1, 1, 6], [3, 1, 2, 6], [3, 1, 3, 6], [3, 1, 4, 6], [3, 1, 5, 6], [3, 2, 1, 6], [3, 2, 2, 6], [3, 2, 3, 6], [3, 2, 4, 6], [3, 2, 5, 6], [3, 3, 1, 6], [3, 3, 2, 6], [3, 3, 3, 6], [3, 3, 4, 6], [3, 3, 5, 6], [3, 4, 1, 6], [3, 4, 2, 6], [3, 4, 3, 6], [3, 4, 4, 6], [3, 4, 5, 6], [3, 5, 1, 6], [3, 5, 2, 6], [3, 5, 3, 6], [3, 5, 4, 6], [3, 5, 5, 6], [4, 1, 1, 6], [4, 1, 2, 6], [4, 1, 3, 6], [4, 1, 4, 6], [4, 1, 5, 6], [4, 2, 1, 6], [4, 2, 2, 6], [4, 2, 3, 6], [4, 2, 4, 6], [4, 2, 5, 6], [4, 3, 1, 6], [4, 3, 2, 6], [4, 3, 3, 6], [4, 3, 4, 6], [4, 3, 5, 6], [4, 4, 1, 6], [4, 4, 2, 6], [4, 4, 3, 6], [4, 4, 4, 6], [4, 4, 5, 6], [4, 5, 1, 6], [4, 5, 2, 6], [4, 5, 3, 6], [4, 5, 4, 6], [4, 5, 5, 6], [5, 1, 1, 6], [5, 1, 2, 6], [5, 1, 3, 6], [5, 1, 4, 6], [5, 1, 5, 6], [5, 2, 1, 6], [5, 2, 2, 6], [5, 2, 3, 6], [5, 2, 4, 6], [5, 2, 5, 6], [5, 3, 1, 6], [5, 3, 2, 6], [5, 3, 3, 6], [5, 3, 4, 6], [5, 3, 5, 6], [5, 4, 1, 6], [5, 4, 2, 6], [5, 4, 3, 6], [5, 4, 4, 6], [5, 4, 5, 6], [5, 5, 1, 6], [5, 5, 2, 6], [5, 5, 3, 6], [5, 5, 4, 6], [5, 5, 5, 6]\}$

(%i4)  $W:\text{cardinality}(A)/\text{cardinality}(S);$

(%o4)  $\frac{125}{1296}$

(%i5)

Wie groß ist die Wahrscheinlichkeit, dass beim viermaligen Werfen eines Würfels erst beim vierten mal ein Sechser geworfen wird?  
  
Löse diese Aufgabe mittels Ereignisalgebra!