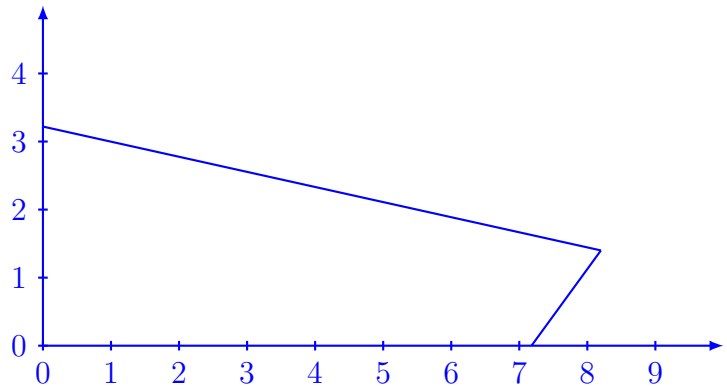
List of Figures



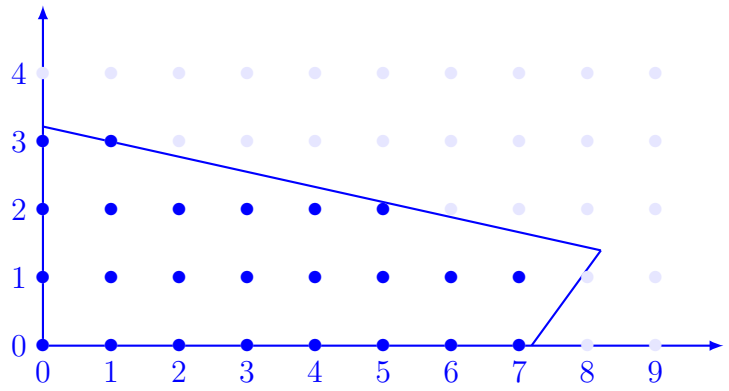

```
\begin{tikzpicture}[blue,thick,scale=0.9]
  \draw[->,-latex] (0,0) -- (10,0) ;
  \draw[->,-latex] (0,0) -- (0,5) ;

  \draw (0,3.22)--(8.2,1.4) ;
  \draw (8.2,1.4)--(7.18,0) ;

  \foreach \x/\xtext in {0,1,...,9} {
    \draw[shift={(\x,0)}] (0pt,2pt) -- (0pt,-2pt) node[below]
         {$\xtext$};
  }

  \foreach \y/\ytext in {0,1,...,4} {
    \draw[shift={(0,\y)}] (2pt,0pt) -- (-2pt,0pt) node[left]
         {$\ytext$};
  }
\end{tikzpicture}
```

Figure 1: Polytope

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\begin{tikzpicture}[blue,thick,scale=0.9]
  \draw[->,-latex] (0,0) -- (10,0) ;
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         {$\xtext$};
  }

  \foreach \y/\ytext in {0,1,...,4} {
    \draw[shift={(0,\y)}] (2pt,0pt) -- (-2pt,0pt) node[left]
         {$\ytext$};
  }

  \foreach \k in {0,1,...,9} {
    \foreach \l in {0,1,...,4} {
      \draw(\k,\l) node[blue!10] {$\bullet$};
    }
  }

  \foreach \k in {0,1,...,7} {
    \draw(\k,0) node {$\bullet$};
  }
  \foreach \k in {0,1,...,7} {
    \draw(\k,1) node {$\bullet$};
  }
  \foreach \k in {0,1,...,5} {
    \draw(\k,2) node {$\bullet$};
  }
  \foreach \k in {0,1} {
    \draw(\k,3) node {$\bullet$};
  }

  \end{tikzpicture}
```

Figure 2: Polytope with lattice