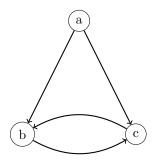
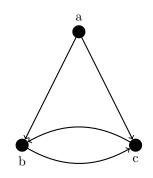
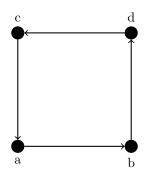
Graphs using \LaTeX

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January 2, 2025







```
\begin{tikzpicture}[fill=black]
         \path (0,0)
         \stackrel{-}{\hookrightarrow} node(a)[circle,draw,

    fill,label=below:a] {}

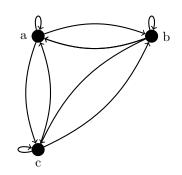
          (3,0) node(b)[circle,draw,
          \rightarrow fill, label=below:b] {}
          (0,3) node(c)[circle,draw,

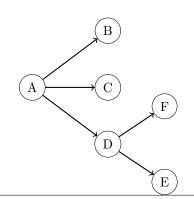
    fill,label=above:c] {}

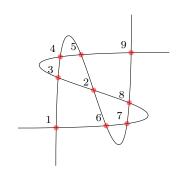
          (3,3) node(d)[circle,draw,

    fill,label=above:d]

          → {};
         \draw[thick,black,->]
          \hookrightarrow (a)--(b);
         \draw[thick,black,->]
          \rightarrow (b)--(d);
         \draw[thick,black,->]
          \hookrightarrow (d)--(c);
         \draw[thick,black,->]
         \hookrightarrow (c)--(a);
\end{tikzpicture}
```







```
\begin{tikzpicture}
  \clip (-2,-2) rectangle (2,2);
  \draw [name path=curve 1] (-2,-1) .. controls
  \( \to (8,-1) \) and (-8,1) .. (2,1);
  \draw [name path=curve 2] (-1,-2) .. controls
  \( \to (-1,8) \) and (1,-8) .. (1,2);
  \fill [name intersections={of=curve 1 and curve 2,
  \( \to \) name=i, total=\t}]
  [red, opacity=0.5, every node/.style={above left,
  \( \to \) black, opacity=1}]
  \draw foreach \s in {1,...,\t}{(i-\s) circle (2pt) node}
  \( \to \) {\footnotesize\s}};
\end{tikzpicture}
```

