

Aa ag

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```
\draw (-2.5,0) -- (2.5,0);

\draw (-0.08,0) node[Dandelion,fill=black,left,
    rectangle,inner xsep=0.6mm,inner ysep=2mm]{\Huge Aa};

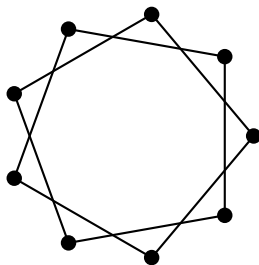
\draw (0.08,0) node[Dandelion,fill=black,right,
    rectangle,inner xsep=0.6mm,inner ysep=2mm]{\Huge ag};

\draw (-2.5,-3.5) -- (2.5,-3.5);

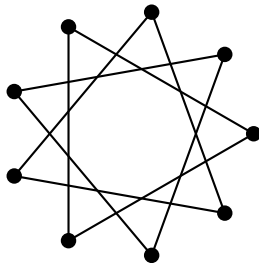
\draw (-0.08,-3.5) node[Dandelion,fill=black,left,
    rectangle,inner xsep=0.6mm,inner ysep=2mm,
    text height=4ex,text depth=1ex]{\Huge Aa};

\draw (0.08,-3.5) node[Dandelion,fill=black,right,
    rectangle,inner xsep=0.6mm,inner ysep=2mm,
    text height=4ex,text depth=1ex]{\Huge ag};
```

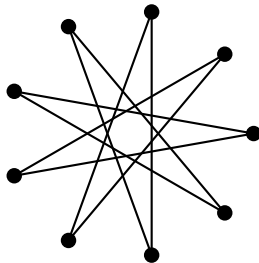
(9, 2)



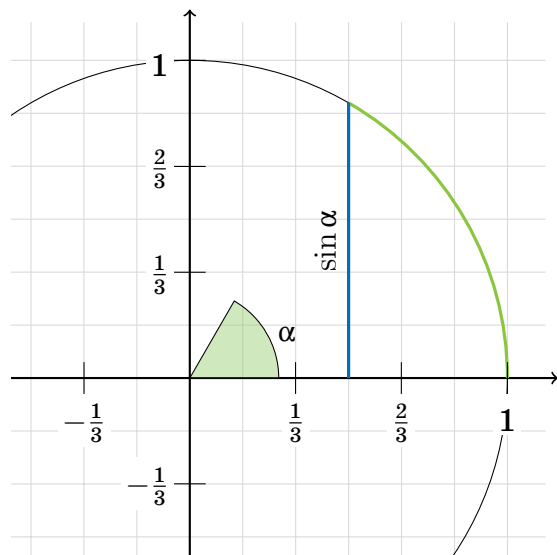
(9, 3)



(9, 4)



```
\foreach \j in {2,3,4} {  
  \begin{scope}[yshift=-4.3 * \j cm]  
    \draw (-1.6,1.4) node[left]{\((9,\j)\)};  
  
    \foreach \i in {0,...,8} {  
  
      \fill[black] (360/9 * \i : 1.6cm)  
        circle[radius=1mm];  
  
      \draw[thick] (360/9 * \i : 1.6cm) --  
        ({360/9 * (\i + \j)} : 1.6cm);  
  
    }  
  \end{scope}  
}
```



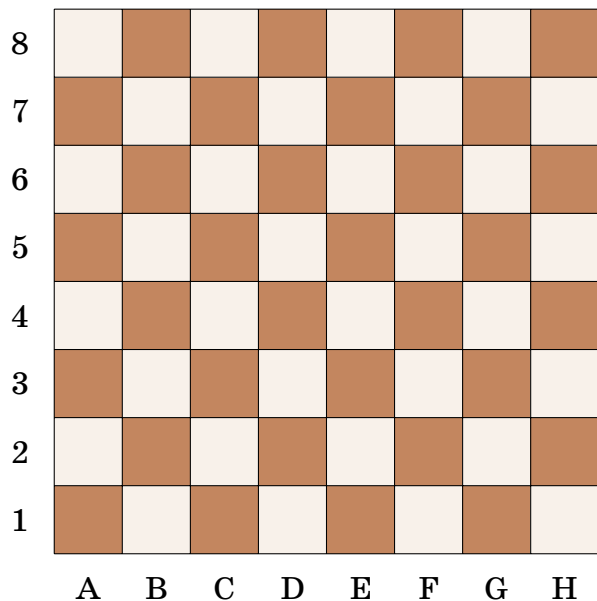
```
\clip (-0.56,-0.56) rectangle (1.16,1.16);
```

```
\foreach \x in {-6,...,6} {
  \draw[thin,black!15!white] (-1.12, \x/6) --
    (1.12, \x/6) (\x/6, -1.12) -- (\x/6, 1.12);}
\draw[thick,->] (-1.16,0)--(1.16,0);
\draw[thick,->] (0,-1.16)--(0,1.16);
\draw (0,0) circle[radius=1cm];
```

```
\draw[very thick,LimeGreen] (0:1cm) arc (0:60:1cm);
\draw[very thick,NavyBlue] (60:1cm) -- (60:1cm |- 0,0)
  node[black,midway,above,rotate=90] {\sin \alpha};
```

```
\filldraw[fill=YellowGreen,fill opacity=0.45,
  draw=black] (0,0) -- (0.28,0) arc (0:60:0.28)
  node[black,anchor=south west,inner sep=0.3ex,
  pos=0.35,text opacity=1]{\alpha$} -- cycle;
```

```
\foreach \t / \ttext in {1, -1, 0.333 / \frac13,
  -0.333 / -\frac13, 0.666 / \frac23} {
  \draw (\t,0.05) -- (\t,-0.05) node[below,fill=white,
    inner sep=0.3ex,text height=2.2ex]{\ttext$};
  \draw (0.05,\t) -- (-0.05,\t) node[left, fill=white,
    inner sep=0.3ex,text height=2.2ex]{\ttext$};}
```



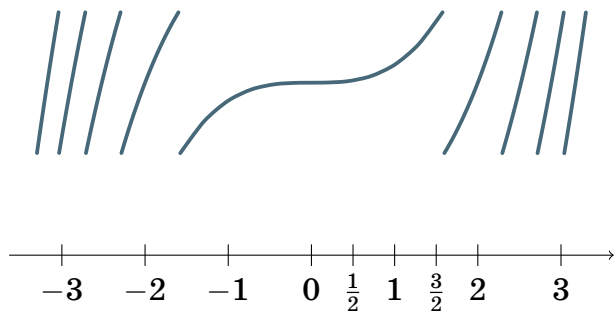
```

\foreach \x in {0,...,7}
  \foreach \y in {0,...,7} {
    \ifthenelse{\intcalcMod{\x+\y}{2}=0}
      {\fill[RawSienna!55!white]}
      {\fill[RawSienna!5!white]}
      (\x,\y) rectangle ++(1,1);
  }

\foreach \i in {1,...,8} {
  \draw (\i-0.5, -0.5) node{\AlphAlph{\i}}
        (-0.5, \i-0.5) node{\i};
}

\draw[step=1cm, black] (0,0) grid (8,8);

```



```
\begin{tikzpicture}[xscale=1.1,yscale=1.9,
  declare function={
    sdrob(\x) = Mod(\x+0.5, 1) - 0.5;
    main(\x) = (0.5 * \x)^3;
    invmain(\x) = \x^(1/3) * 2;}]

\draw[->] ({invmain(-6)} , -1.2)
  -- ({invmain(6)} , -1.2);

\foreach \x / \xtext in {0 / 0, -1 / -1,
  0.5 / \frac{1}{2}, 1.5 / \frac{3}{2},
  1 / 1, 2 / 2, 3 / 3, -2 / -2, -3 / -3}
{\draw (\x cm,-11.25 mm) -- (\x cm,-12.75 mm)
  node[below, text height=1.6ex]{\xtext}};

\foreach \t in {-4,...,4} {
  \draw[domain=invmain(\t-0.49):invmain(\t+0.49),
    variable=\x, samples=12, Cyan!35!black,
    line cap=round, line width=0.5mm,
    smooth] plot({\x}, {sdrob(main(\x))});
}
\end{tikzpicture}
```