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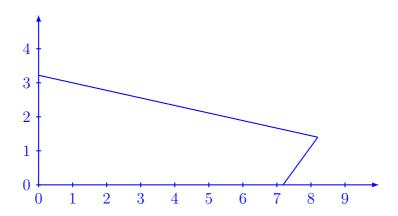
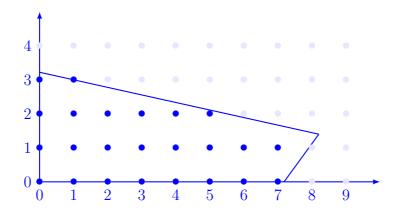


Figure 1: domain-01.tex: Polygon



```
\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]
  \{\startx\};
}

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

\foreach \k in {0,1,...,9} {
  \draw[\shift={(0,\y)}] (\startx\};
}

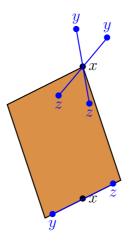
\foreach \k in {0,1,...,4} {
  \draw(\k,\l) node[blue!10] {\startx\};
}

\foreach \k in {0,1,...,7} {
  \draw(\k,0) node {\startx\};
}

\foreach \k in {0,1,...,7} {
  \draw(\k,1) node {\startx\};
}

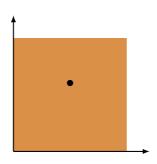
\foreach \k in {0,1,...,5} {
  \draw(\k,2) node {\startx\};
}
\foreach \k in {0,1,...,5} {
  \draw(\k,2) node {\startx\};
}
\foreach \k in {0,1} {
  \draw(\k,2) node {\startx\};
}
\end{tikzpicture}
\rightarrow
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```

Figure 2: domain-02.tex: Polygon with lattice



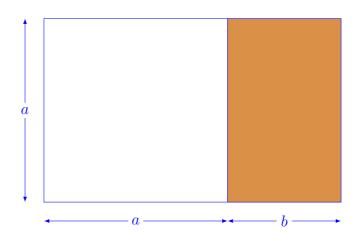
```
\definecolor{cof}{RGB}{219, 144, 71}
\begin{tikzpicture}{thick}
\coordinate (A1) at (0, 0);
\coordinate (A2) at (2, 1);
\coordinate (A3) at (1, 4);
\coordinate (A4) at (-1, 3);
\draw[fill=cof, opacity=0.6] (A1) -- (A2) -- (A3) -- (A4) --cycle;
\draw (A3) node {$\bullet$} node[right] {$x$};
\draw[blue] (A3) -- ++(50:1) node {$\bullet$} node[above] {$y$};
\draw[blue] (A3) -- ++(230:1) node {$\bullet$} node[below] {$z$};
\draw[blue] (A3) -- ++(230:1) node {$\bullet$} node[below] {$z$};
\draw[blue] (A3) -- ++(280:1) node {$\bullet$} node[below] {$z$};
\draw[blue] (A3) -- ++(280:1) node {$\bullet$} node[below] {$z$};
\draw[blue] (A3) -- ++(280:1) node {$\bullet$} node[below] {$z$};
\draw[blue] (0.2, 0.1) node {$\bullet$} node[below] {$z$};
\draw[blue] (0.2, 0.1) node {$\bullet$} node[below] {$z$};
```

Figure 3: domain-03.tex: Filled polygon with directions



```
\definecolor{cof}{RGB}{219, 144, 71}
\begin(tikzpicture)[scale=3]
\fill[fill=cof, opacity=0.1] (0, 0) -- (0, 1) -- (1, 1) -- (1, 0);
\draw[thick, -latex] (0, 0) -- (0, 1.2);
\draw[thick, -latex] (0, 0) -- (1.2, 0);
\draw (0.5, 0.6) node {$\bullet$};
\end{tikzpicture}
```

Figure 4: domain-04.tex: Filled polygon with axes



```
\definecolor{cof}{RGB}{219, 144, 71}
\tegin(tikzpicture)[blue]
\def \b {3}
\def \a {\b * 1.618}
\def \a {\b * 1.618}
\def \a {\b * \b * \b * \b * \b * \def \a {\b * \b * \b * \b * \def \a {\b * \b * \b * \b * \def \a {\b * \b * \def \a {\b * \b * \def \a {\b * \b * \def \a {\b * \b * \def \a {\b * \def \a
```

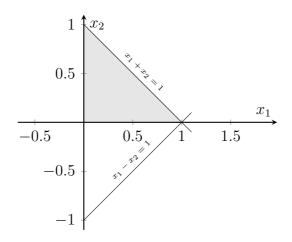
Figure 5: domain-05.tex: Filled and anotated rectangle

```
\begin{array}{c|c}
y \\
B \\
\hline
D \\
C
\end{array}
```

```
\begin{tikzpicture} \draw[->, thick] (-0.5, 0)--(4, 0) node[right]{$x$}; \draw[->, thick] (0, -0.5)--(0, 4) node[above]{$y$};
    \node[
         circle,
         draw=black,
   draw=Dlack,
fill=black,
inner sep=0pt,
minimum size=3pt,
label=below:{$D$}
] (d) at (1, 0) {};
    \node[
circle,
        draw=black,
fill=black,
         inner sep=0pt,
minimum size=3pt,
    label=below:{$C$}
] (c) at (3, 0) {};

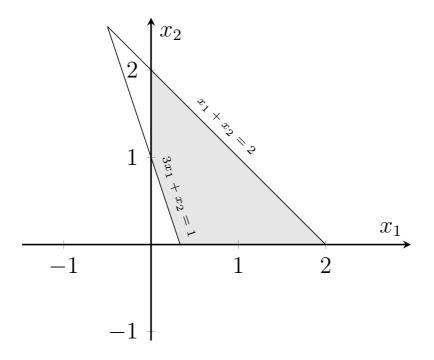
node[
circle,
         draw=black,
fill=black,
         inner sep=0pt,
minimum size=3pt,
    minimum size=3pt,
label=left:{$B$}
] (b) at (0, 3) {};
\node[
circle,
    circle,
draw=black,
fill=black,
inner sep=Opt,
minimum size=3pt,
label=left:($A$)
] (a) at (0, 0.25) {};
    \fill[
    opacity=0.5,
gray150
] (1, 0) -- (3, 0) -- (0, 3) -- (0, 0.25) -- cycle;
    \draw[dashed, thick] (0, 2) -- (1, 0);
\draw[dashed, thick] (0, 4) -- (2, 0);
\draw[dashed, thick] (1, 4) -- (3, 0);
\end{tikzpicture}
```

Figure 6: domain-06.tex: Polygon and level lines



```
\begin(tikzpicture)
\begin(axis)[
    xlabel=($x_2$),
    axis on top=true,
    axis equal,
    axis lines=middle,
    samples=41,
    thick,
    xmin=-0.1,
    xmax=1.4,
    ymin=-1.1,
    ymax=1.1,
]
\addplot[
    thick,
    color=gray!20,
    fill=gray!20,
    fill opacity=0.05
] coordinates {
      (0, 1)
      (1, 0)
      (0, 0)
};
\addplot[
    color=black,
    thin,
    domain=0:1.1
] (1 - x) node[pos=0.5, sloped, above] {\tiny $x_1+x_2=1$};
\addplot[
    color=black,
    thin,
    domain=0:1.1
] (x - 1) node[pos=0.5, sloped, above] {\tiny $x_1-x_2=1$};
\end(axis)
\end(tikzpicture)
```

Figure 7: domain-07.tex: Feasible set with equations with Pgfplots



```
\begin{tikzpicture} [scale=1.5]
\begin{axis} {
    xlabel={$x_1$},
    ylabel={$x_2$},
    axis on top=true,
    axis equal,
    axis lines=middle,
    samples=41,
    thick,
    xmin=-0.6,xmax=2.1,
    ymin=-1.1,ymax=2.6
}

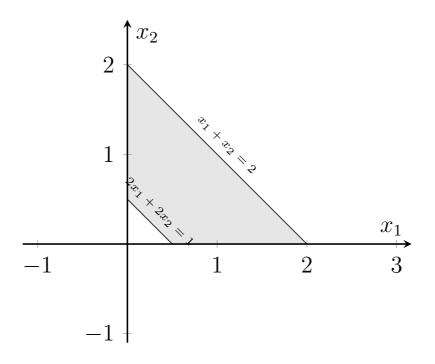
\addplot[
    thick,
    color=gray!20,
    fill=gray!20,
    fill opacity=0.05
] coordinates {
    (1/3, 0) (2, 0) (0, 2) (0, 1)
};

\addplot[
    color=black,
    thin,
    domain=-0.5:2
] (2-x) node[pos=0.5, sloped, above] {\tiny $x_1+x_2=2$};

\addplot[
    color=black,
    thin,
    domain=-0.5:0.33333
] {1-3*x} node[pos=0.8, sloped, above] {\tiny $3x_1+x_2=1$};

\end{axis}
\end{tikzpicture}
```

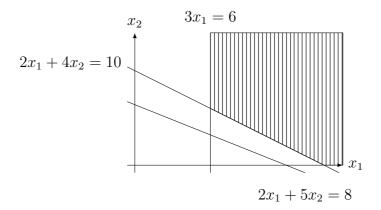
Figure 8: domain-08.tex: Feasible set with equations with Pgfplots



```
\begin{tikzpicture} [scale=1.5]
\begin{axis}{
    xlabel=($x_1$),
    ylabel=($x_2$),
    axis on top=true,
    axis equal,
    axis lines=middle,
    samples=41,
    thick,
    xmin=-0.1,xmax=2.1,
    ymin=-1.1,ymax=2.5,
}

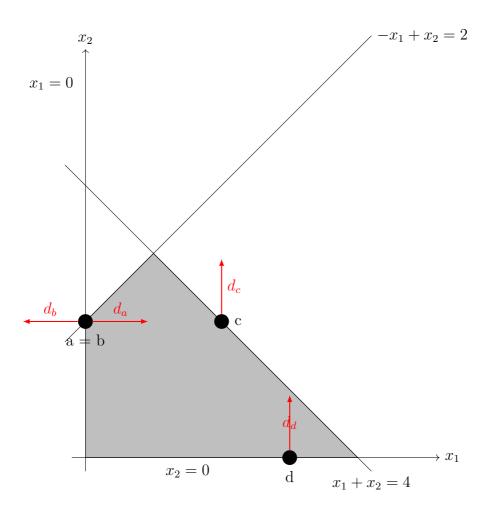
\addplot[
    thick,
    color=gray!20,
    fill=gray!20,
    fill=gra
```

Figure 9: domain-09.tex: Feasible set with equations with Pgfplots



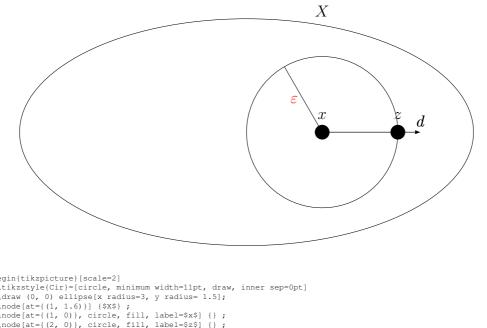
```
\begin{tikzpicture}
\draw[-latex] (-0.2, 0) -- (5.5, 0) node[right] {$x_1$};
\draw[-latex] (0, -0.2) -- (0, 3.5) node[above] {$x_2$};
\draw[color=black] (2, -0.2) -- (2, 3.5);
\node at (2, 3.9) {$3x_1 = 6$};
\draw[color=black] (-0.2, 2.6) -- (5.4, -0.2);
\node at (-1.7, 2.7) {$2x_1+4 x_2 = 10$};
\draw[color=black] (-0.2, 1.68) -- (4.5, -0.2);
\node at (4.5, -0.8) {$2x_1+5x_2=8$};
\draw[pattern=vertical lines]
(2, 1.5) -- (2, 3.5) -- (5.5, 3.50) -- (5.5, 0)-- (5, 0) -- cycle;
\end{tikzpicture}
```

Figure 10: domain-10.tex: Feasible set with pattern



```
\begin{tikzpicture} [scale=1.8, domain=-0.3:4.2, range=-0.4:6] \draw[fill=lightgray] (0, 0) -- (0, 2) -- (1, 3) -- (4, 0) -- cycle; \draw[->] (-0.2, 0) -- (5.2, 0) node[right] {$x_1$; \draw[->] (0, -0.2) -- (0, 6) node[above] {$x_2$; \draw[color=black] plot (\x, \x+2) node[right] {$-x_1 + x_2 = 2$; \draw[color=black] plot (\x, 4-\x) node[below] {$x_1 + x_2 = 4$; \node at (1.5, -0.2) {$x_2 = 0$; \node at (-0.5, 5.5) {$x_1 = 0$; \node at (-0.5, 5.5) {$x_1 = 0$; \node (a) at (0, 2) [circle, fill, label=below:{a = b}] {}; \node (da) at (1, 2) {}; \draw[-latex, color=red, thick] (A) -- (da) node[midway, text=red, above] {$d_a$}; \node (db) at (-1, 2) {}; \draw[-latex, color=red, thick] (A) -- (db) node[midway, text=red, above] {$d_b$}; \node (C) at (2, 2) [circle, fill, label=right:c] {}; \draw[-latex, color=red, thick] (C) -- (dc) node[midway, text=red, right] {$d_c$}; \node (D) at (3, 0) [circle, fill, label=below:d] {}; \node (D) at (3, 0) [circle, fill, label=below:d] {}; \node (D) at (3, 0) [circle, fill, label=below:d] {}; \draw[-latex, color=red, thick] (D) -- (dd) node[midway, text=red] {$d_d$}; \end{tikzpicture}
```

Figure 11: domain-11.tex: Feasible set with directions



begin{tikzpicture}[scale=2]
 \tikzstyle{Cir}=[circle, minimum width=11pt, draw, inner sep=0pt]
 \draw (0, 0) ellipse[x radius=3, y radius= 1.5];
 \node[at={(1, 1.6)}] (\$x\$);
 \node[at={(1, 0)}, circle, fill, label=\$x\$] {};
 \node[at={(2, 0)}, circle, fill, label=\$z\$] {};
 \draw (1, 0) circle[radius=1];
 \draw [Circle-] (1, 0) -- node[left, red] {\$\varepsilon\$} (60:1);
 \draw[-latex] (1, 0) -- (2.3, 0) node[above] {\$d\$};
 \draw[-latex] (1, 0) -- (2.3, 0) node[above] {\$d\$};

Figure 12: domain-12.tex: Ellipsis and circle

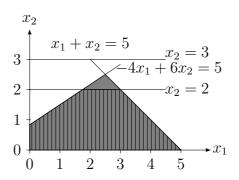
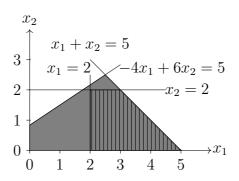
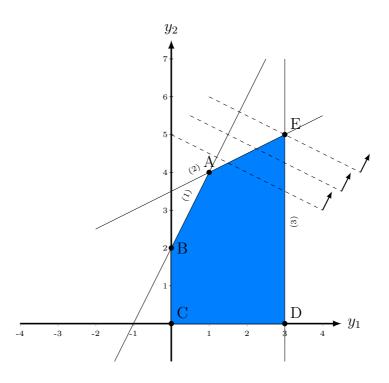


Figure 13: domain-13.tex: Feasible set with pattern



```
\begin{tikzpicture} [scale=0.8] \draw[->] (0, 0) -- (6, 0); \draw[->] (0, 0) -- (6, 0); \draw[->] (0, 0) -- (0, 4); \node at (6.3, 0) {$x_1$}; \node at (6.3, 0) {$x_2$}; \foreach \x in {0, ..., 5} { \draw (\x, 1pt) -- (\x, -3pt) node[anchor=north] {\x}; } \foreach \y in {0, ..., 3} { \draw (1pt, \y) -- (-3pt, \y) node[anchor=east] {\y}; } \draw [fill=gray, opacity=0.3] (0, 0) -- (0, 5/6) -- (2.5, 2.5) -- (5, 0) -- cycle; \draw [pattern=vertical lines] (2, 0) -- (2, 2) -- (3, 2) -- (5, 0) -- cycle; \draw (5, 0) -- (2, 3); \draw (0, 5/6) -- (3, 17/6); \node at (4.7, 2.7) {$-4x_1+6x_2=5$}; \draw (0, 2) -- (4.5, 2); \node at (5.2, 2) {$x_2=2$}; \draw (2, 0) -- (2, 2.5); \node at (1.3, 2.7) {$x_1=2$}; \end{tikzpicture}
```

Figure 14: domain-14.tex: Feasible set with pattern



```
\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{
```

Figure 15: domain-15.tex: Polygon with level lines and vertices

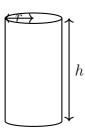
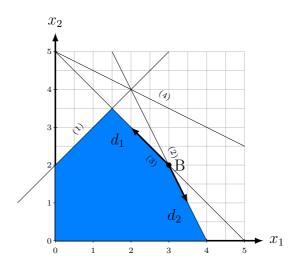
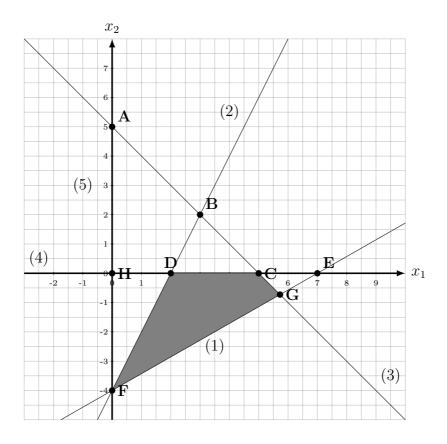


Figure 16: domain-16.tex: Cylinder



```
\legin{tikzpicture} \ \draw[gray|50, \text{ thin, step=0.5}] (0, 0) \text{ grid (5, 5);} \ \draw[gray|50, \text{ thin, step=0.5}] (0, 0) \text{ grid grid (5, 5);} \ \draw[very \text{ thick, -latex}] (0, 0) \text{ coordinate(x1) -- (0, 5.5) coordinate(x2) node[right] {\$x_1\$}; \ \draw[very \text{ thick, -latex}] (0, 0) \text{ coordinate(y1) -- (0, 5.5) coordinate(y2) node[above] {\$x_2\$}; \ \draw (\xi, 0.05) -- (\xi, -0.05) \text{ node[below] {\text{ tiny\x}}; \} \ \draw (\xi, 0.05) -- (\xi, -0.05) \text{ node[below] {\text{ tiny\x}}; \} \ \draw (-0.05, \y) \text{ node[left] {\text{ tiny\y}}; \} \ \draw (-0.05, \y) \text{ node[left] {\text{ tiny\y}}; \} \ \draw (-1, 1) \text{ coordinate (a1) -- node[above \text{ left, sloped] {\text{ tiny \$(1)\$} (3, 5) \text{ coordinate (a2); } \ \draw (0, 5) \text{ coordinate (b1) -- node[above \text{ right, sloped] {\text{ tiny \$(2)\$} (4, 0) \text{ coordinate (b2); } \ \draw (5, 2.5) \text{ coordinate (d1) -- node[above \text{ right, sloped] {\text{ tiny \$(3)\$} (5, 0) \text{ coordinate (c2); } \ \draw (\xi, 2) \text{ coordinate (d1) -- node[above \text{ right, sloped] {\text{ tiny \$(4)\$} (0, 5) \text{ coordinate (d2); } \ \draw (\xi, 2) \text{ coordinate (d1) -- node[above \text{ right, sloped] {\text{ tiny \$(4)\$} (0, 5) \text{ coordinate (d2); } \ \draw (\xi, 2) \text{ coordinate (d2); } \ \draw (\xi, 2) \text{ left, lext} (3, 2) \text{ -- (2, 3) node[below \text{ left] \} \} \\draw (\xi, 2) \text{ left, lext} (3, 2) \text{ -- (3.5, 1) node[below \text{ left] \} \} \\draw (\xi, 2) \text{ left, left, left, left] \} \\draw (\xi, 2) \text{ node[right] \} \} \\draw
```

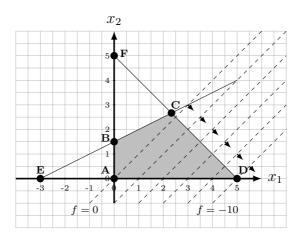
Figure 17: domain-17.tex: Grid and intersection



```
\begin{tikzpicture}[scale=0.775]
\draw[gray!50, thin, step=0.5] (-3, -5) grid (10, 8);
\draw[qray!50, thin, step=0.5] (-3, -5) grid (10, 8);
\draw[very thick, -latex] (-3, 0) coordinate(x1) -- (10, 0) coordinate(x2) node[right] {$x_1$};
\draw[very thick, -latex] (0, -5) coordinate(y1) -- (0, 8) coordinate(y2) node[above] {$x_2$};
\foreach \x in {-2, ..., 9} {
    \draw (\x, 0.05) -- (\x, -0.05) node[below] {\tiny\x};
    }
\foreach \y in {-4, ..., 7} {
    \draw (-0.05, \y) -- (0.05, \y) node[left] {\tiny\y};
}
\fill[gray, opacity=0.4] (0, -4) -- (63/11, -8/11) -- (5, 0) -- (2, 0) -- cycle;
\draw (10, 12/7) -- (-7/4, -5);
\draw (10, 12/7) -- (-7/4, -5);
\draw (10, -5) -- (-3, 8);
\node at (4, 5.5) {(2)};
\node at (3.5, -2.5) {(1)};
\node at (4, 5.5) {(2)};
\node at (9.5, -3.5) {(3)};
\node at (-1.3, 3) {(5)};

\draw [draw=black, fill=black] (3, 2) circle (0.1) node[anchor=south west] {\textbf{B}};
\draw [draw=black, fill=black] (5, 0) circle (0.1) node[anchor=south] {\textbf{C}};
\draw [draw=black, fill=black] (2, 0) circle (0.1) node[anchor=south west] {\textbf{E}};
\draw [draw=black, fill=black] (7, 0) circle (0.1) node[anchor=south west] {\textbf{E}};
\draw [draw=black, fill=black] (7, 0) circle (0.1) node[anchor=west] {\textbf{E}};
\draw [draw=black, fill=black] (0, -4) circle (0.1) node[anchor=west] {\textbf{E}};
\draw [draw=black, fill=black] (0, 0) circle (0.1) node[anchor=west] {\textbf{E}};
\draw [draw=black, fill=black] (0, 0) circle (0.1) node[anchor=west] {\textbf{E}};
\draw [draw=black, fill=black] (0, 0) circle (0.1) node[anchor=west] {\textbf{E}};
\draw [draw=black, fill=black] (0, 0) circle (0.1) node[anchor=west] {\textbf{E}};
\draw [draw=black, fill=black] (0, 0) circle (0.1) node[anchor=west] {\textbf{E}};
\draw [draw=black, fill=black] (0, 0) circle (0.1) node[anchor=west] {\textbf{E}};
\draw [draw=black, fill=black] (0, 0) circle (0.1) node[anchor=west] {\textbf{E}};
\draw [draw=black, fill=black] (0, 0) circle (0.1) node[anchor=west] {\textbf{E}};
\draw [draw=black, fill=black] (0, 0) circ
```

Figure 18: domain-18.tex: Complex domain with vertices



```
\text{\text{begin}(tikzpicture)} [scale=0.65]
\fill[gray|150] (0, 0) -- (0, 1.5) -- (7/3, 8/3) -- (5, 0) -- cycle;
\draw[gray|50, thin, step=0.5] (-4, -2) grid (7, 6);
\draw[very thick, -latex] (-4, 0) coordinate(x1) -- (6, 0) coordinate(x2) node[right] {$x_1$};
\draw[very thick, -latex] (0, -1) coordinate(y1) -- (0, 6) coordinate(y2) node[above] {$x_2$};
\foreach \x in (-3, ..., 5) {
\draw (\x, 0.05) -- (\x, -0.05) node[below] {\tiny\x};
\}
\foreach \y in {0, ..., 5} {
\draw (-0.05, \y) -- (0.05, \y) node[left] {\tiny\y};
\}
\draw (-0.05, \y) -- (0.05, \y) node[above right, sloped] {\} (5, 0) coordinate (a2);
\draw (-3, 0) coordinate (a1) -- node[above right, sloped] {\} (5, 4) coordinate (b2);
\draw[dashed] (-1, -1) -- (6, 6);
\draw[dashed] (-1, -1) -- (7, 5);
\draw[dashed] (-1, -1) -- (7, 5);
\draw[dashed] (-1, -1) -- (7, 3);
\draw[dashed] (-1, -1) -- (7, 3);
\draw[dashed] (-1, -1) -- (7, 2);
\node at (0, 0) [circle, fill, inner sep=2pt] {\};
\node at (0, 0) [circle, fill, inner sep=2pt] {\};
\node at (0, 0) [circle, fill, inner sep=2pt] {\};
\node at (-3, 0, 35) (circle, fill, inner sep=2pt] {\};
\node at (-3, 0, 35) (scriptsize(\textbf(a)));
\node at (-3, 0, 35) \scriptsize(\textbf(a)));
\node at (-3, 0, 35) \scriptsize(\textbf(a));
\node at (-1, 0, -1, 3) \scriptsize(\textbf(a));
\node at (-2, -1, 3) \scriptsize(\textbf(a));
\node at (-3, 0, 35) \scriptsize(\textbf(a));
\node at (-1, 0, -1, 3) \scriptsize(\textbf(a));
\node at (-2, -1, 3) \scriptsize(\textbf(a));
\node at (-1, 0, -1, 3) \scriptsize(\textbf(a));
\node at (-2, -1, 3) \scriptsize(\textbf(a));
\node at (-2, -1, 3) \scriptsize(\textbf(a));
\node at (-1, 0, -1, 3) \scriptsize(\textbf(a));
\node at (-2, -1, 3) \scriptsize(\textbf(a));
\node at (-3, 0, 35) \scriptsize(\tex
```

Figure 19: domain-19.tex: Domain with level lines

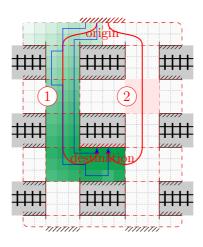


Figure 20: domain-20.tex: Complex map