

```

tikzpicture
axis[ xmin=-3, xmax=5, ymin=-5, ymax=5, axis on top, width=, height=, tick pos=both ] [draw=red,
fill=red, opacity=0.5] (axis cs:3,0) --(axis cs:3,1) --(axis cs:2,1) --(axis cs:2,0) --cycle;
[draw=red, fill=red, opacity=0.5] (axis cs:3,1) --(axis cs:3,2) --(axis cs:2,2) --(axis cs:2,1) --cycle;
[draw=red, fill=red, opacity=0.5] (axis cs:3,2) --(axis cs:3,3) --(axis cs:2,3) --(axis cs:2,2) --cycle;
[draw=red, fill=red, opacity=0.5] (axis cs:3,3) --(axis cs:3,4) --(axis cs:2,4) --(axis cs:2,3) --cycle;
[draw=red, fill=red, opacity=0.5] (axis cs:3,4) --(axis cs:3,5) --(axis cs:2,5) --(axis cs:2,4) --cycle;
[draw=red, fill=red, opacity=0.5] (axis cs:3,-1) --(axis cs:3,0) --(axis cs:2,0) --(axis cs:2,-1) --cycle;
[draw=red, fill=red, opacity=0.5] (axis cs:3,-2) --(axis cs:3,-1) --(axis cs:2,-1) --(axis cs:2,-2) --cycle;
[draw=red, fill=red, opacity=0.5] (axis cs:3,-3) --(axis cs:3,-2) --(axis cs:2,-2) --(axis cs:2,-3) --cycle;
[draw=red, fill=red, opacity=0.5] (axis cs:3,-4) --(axis cs:3,-3) --(axis cs:2,-3) --(axis cs:2,-4) --cycle;
[draw=red, fill=red, opacity=0.5] (axis cs:3,-5) --(axis cs:3,-4) --(axis cs:2,-4) --(axis cs:2,-5) --cycle;
[draw=green!50.196078431372548!black, fill=green!50.196078431372548!black, opacity=0.5] (axis cs:5,0)
--(axis cs:5,1) --(axis cs:4,1) --(axis cs:4,0) --cycle;
at (axis cs:2.1,0.07)[ scale=0.5, anchor=base west, text=black, rotate=0.0, align=left ]  $R_1 p = 1$ ; at (axis
cs:2.1,1.07)[ scale=0.5, anchor=base west, text=black, rotate=0.0, align=left ]  $R_2 p = 1$ ; at (axis cs:2.1,2.07)[
scale=0.5, anchor=base west, text=black, rotate=0.0, align=left ]  $R_3 p = 1$ ; at (axis cs:2.1,3.07)[ scale=0.5,
anchor=base west, text=black, rotate=0.0, align=left ]  $R_4 p = 0.5$ ; at (axis cs:2.1,4.07)[ scale=0.5, an-
chor=base west, text=black, rotate=0.0, align=left ]  $R_5 p = 0$ ; at (axis cs:2.1,-0.93)[ scale=0.5, anchor=base
west, text=black, rotate=0.0, align=left ]  $R_6 p = 1$ ; at (axis cs:2.1,-1.93)[ scale=0.5, anchor=base west,
text=black, rotate=0.0, align=left ]  $R_7 p = 1$ ; at (axis cs:2.1,-2.93)[ scale=0.5, anchor=base west, text=black,
rotate=0.0, align=left ]  $R_8 p = 1$ ; at (axis cs:2.1,-3.93)[ scale=0.5, anchor=base west, text=black, rotate=0.0,
align=left ]  $R_9 p = 0.5$ ; at (axis cs:2.1,-4.93)[ scale=0.5, anchor=base west, text=black, rotate=0.0, align=left
]  $R_{10} p = 0$ ; at (axis cs:4.1,0.07)[ scale=0.5, anchor=base west, text=black, rotate=0.0, align=left ]  $A_1 p = 0.9$ ;

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