Region Plots final

In[52]:=
```
lineStyle = {Thick, Black, Dashed};
line1 = Line[{{0.5, 0}, {0.5, 1}}];
```

SD alone

In[39]:=
```
Pnn[e_] := -1 - e;
```

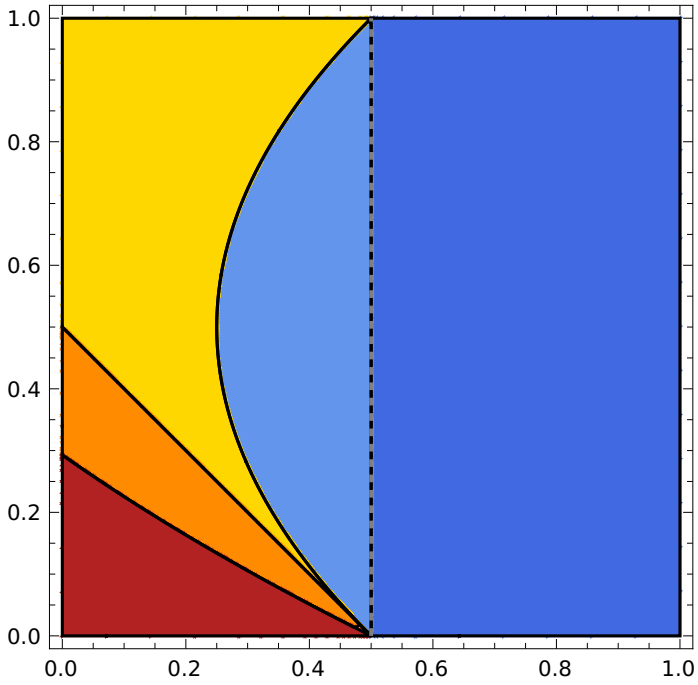
In[40]:=
```
Pnc[x_, e_] := -1 × (1 - x) - e;
```

In[41]:=
```
Pcn[x_] := -1 × (1 - x) - 0.5;
```

In[42]:=
```
Pcc[x_] := -1 × (1 - x) × (1 - x) - 0.5;
```

In[46]:=
```
RegionPlot[
 {Pcc[x] > Pcn[x] > Pnc[x, e] > Pnn[e],
Pcc[x] > Pnc[x, e] > Pcn[x] > Pnn[e],
Pnc[x, e] > Pcc[x] > Pcn[x] > Pnn[e],
Pnc[x, e] > Pcc[x] > Pnn[e] > Pcn[x],
Pnc[x, e] > Pnn[e] > Pcc[x] > Pcn[x]
 },
{e, 0, 1}, {x, 0, 1},
FrameTicksStyle → Directive[Black, 12],
MaxRecursion → 8,
PlotPoints → {Automatic, {{1.6, 0}}},
(*PlotLegends → "Expressions",*)
BoundaryStyle → Black,
PlotStyle → {
ColorData["HTML", "RoyalBlue"],
ColorData["HTML", "CornflowerBlue"],
ColorData["HTML", "Gold"],
ColorData["HTML", "DarkOrange"],
ColorData["HTML", "Firebrick"]},
Epilog → {Directive[lineStyle], line1}
]
```

Out[46]=



In[33]:=
```
ColorData["HTML", "ColorRules"]
```

In[30]:=
```
ColorData["HTML", "CornflowerBlue"]
```

Out[30]=

SD alone + IP

In[47]:=
```
Pnn[e_] := -1;
```

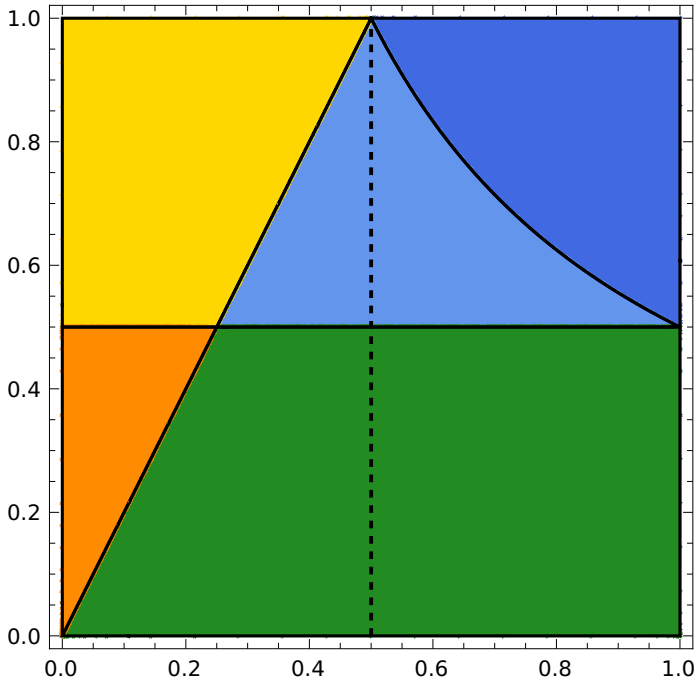
In[48]:=
```
Pnc[x_, e_] := -1 × (1 - x) - e x;
```

In[49]:=
```
Pcn[x_] := -0.5 - 1 × (1 - x);
```

In[50]:=
```
Pcc[x_] := -0.5 × (1 - (1 - x)^2) - 1 (1 - x)^2;
```

In[54]:=
```
RegionPlot[
 {Pcc[x] > Pcn[x] > Pnc[x, e] > Pnn[e],
Pcc[x] > Pnc[x, e] > Pcn[x] > Pnn[e],
Pcc[x] > Pnc[x, e] > Pnn[e] > Pcn[x],
Pnc[x, e] > Pcc[x] > Pcn[x] > Pnn[e],
Pnc[x, e] > Pcc[x] > Pnn[e] > Pcn[x]
 },
{e, 0, 1}, {x, 0, 1},
FrameTicksStyle → Directive[Black, 12],
MaxRecursion → 8,
PlotPoints → {Automatic, {{1.6, 0}}},
(*PlotLegends → "Expressions",*)
BoundaryStyle → Black,
PlotStyle → {
ColorData["HTML", "RoyalBlue"],
ColorData["HTML", "CornflowerBlue"],
ColorData["HTML", "ForestGreen"],
ColorData["HTML", "Gold"],
ColorData["HTML", "DarkOrange"]},
Epilog → {Directive[lineStyle], line1}
]
```

Out[54]=



TTI alone

In[25]:=
```
Pnn[e_] := -1 - e;
```

In[26]:=
```
Pnc[x_, e_] := -1 * (1 - x) - e;
```

In[27]:=
```
Pcn[x_] := -1 - 0.5;
```

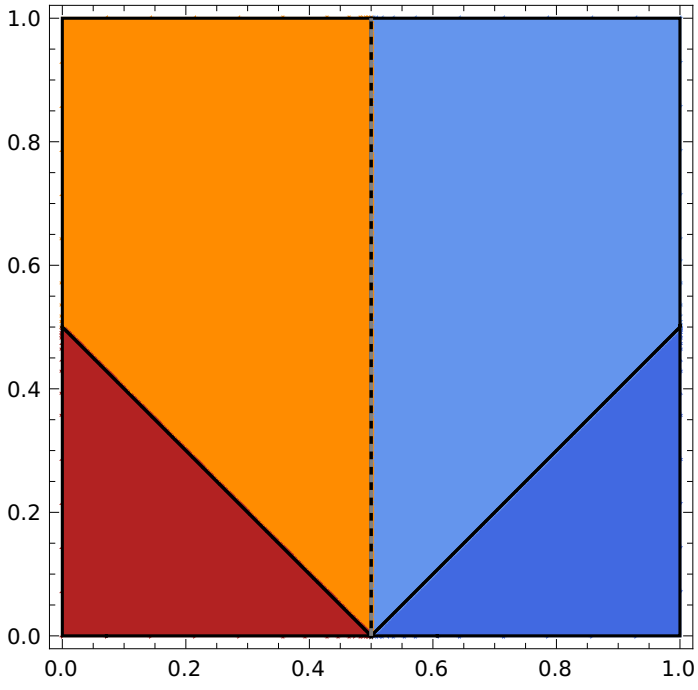
In[28]:=
```
Pcc[x_] := -1 * (1 - x) - 0.5;
```

In[33]:=
```
RegionPlot[
{

 Pcc[x] > Pcn[x] > Pnc[x, e] > Pnn[e],
 Pcc[x] > Pnc[x, e] > Pcn[x] > Pnn[e],
 Pnc[x, e] > Pcc[x] > Pnn[e] > Pcn[x],
 Pnc[x, e] > Pnn[e] > Pcc[x] > Pcn[x],


 },
{e, 0, 1}, {x, 0, 1},
FrameTicksStyle → Directive[Black, 12],
MaxRecursion → 8,
PlotPoints → {Automatic, {{1.6, 0}}},
(*PlotLegends → "Expressions",*)
BoundaryStyle → Black,
PlotStyle → {
ColorData["HTML", "RoyalBlue"],
ColorData["HTML", "CornflowerBlue"],
ColorData["HTML", "DarkOrange"],
ColorData["HTML", "Firebrick"]},
Epilog → {Directive[{Thick, Gray, Dashed}], line1}
]
```

Out[33]=



TTI alone + IP

In[34]:=
```
Pnn[e_] := -1 - e + e;
```

In[35]:=
```
Pnc[x_, e_] := -1 × (1 - x) - e x;
```

In[36]:=
```
Pcn[x_] := -1 - x + x;
```

In[37]:=
```
Pcc[x_] := -1 × (1 - x) - 0.5 x;
```

In[38]:=
```
RegionPlot[
 {
Pcc[x] > Pnc[x, e] > Pcn[x],
Pnc[x, e] > Pcc[x] > Pcn[x],
 },
{e, 0, 1}, {x, 0, 1},
FrameTicksStyle → Directive[Black, 12],
MaxRecursion → 8,
PlotPoints → {Automatic, {{1.6, 0}}},
(*PlotLegends → "Expressions",*)
BoundaryStyle → Black,
PlotStyle → {
ColorData["HTML", "CornflowerBlue"],
ColorData["HTML", "DarkOrange"]},
Epilog → {Directive[{Thick, Gray, Dashed}], line1}
]
```

Out[38]=