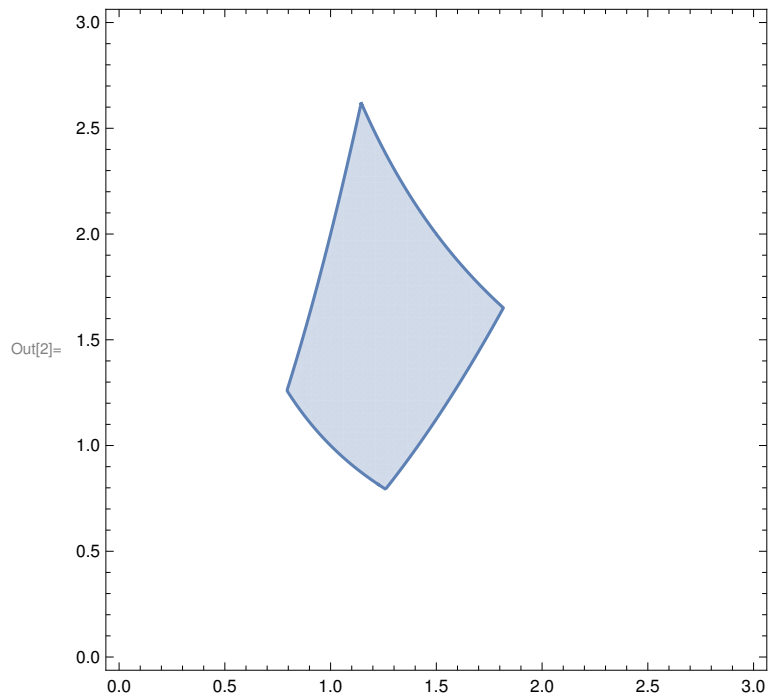


```
In[1]:= p = 1 < x*y < 3 && x^2 / 2 < y < 2 * x^2;
```

```
In[2]:= RegionPlot[p, {x, 0, 3}, {y, 0, 3}, PlotPoints -> 100]
```



```
In[3]:= Integrate[x^3 * Boole[p], {x, 0, Infinity}, {y, 0, Infinity}]
```

Out[3]= 2