

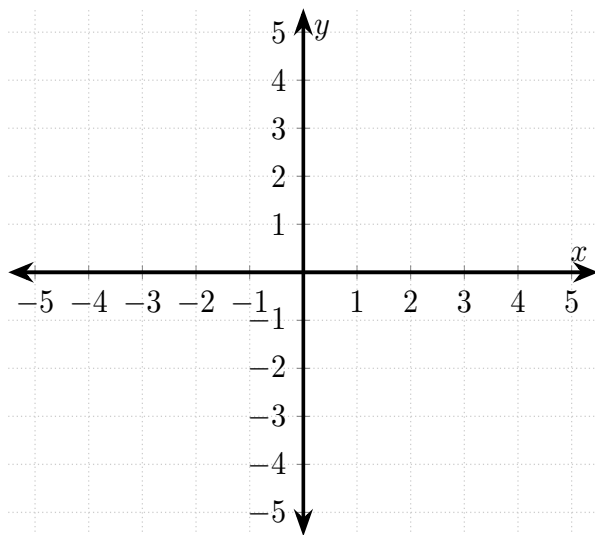
LaTeX pgfplots EXAMPLES

Jeff DeCola

This will draw a blank Coordinate Plane (2D Number Plane),

```
\resizebox{8cm}{8cm}{%
  \begin{tikzpicture}
    \begin{axis}[
      title={Coordinate Plane (2D Number Plane)},
      axis lines=middle,
      axis line style={Stealth-Stealth,very thick},
      xlabel=$x$,
      ylabel=$y$,
      xmin=-5.5,xmax=5.5,ymin=-5.5,ymax=5.5,
      xtick distance=1,
      ytick distance=1,
      grid=major,
      grid style={thin,densely dotted,black!20}
    ]
  \end{axis}
\end{tikzpicture}
}
```

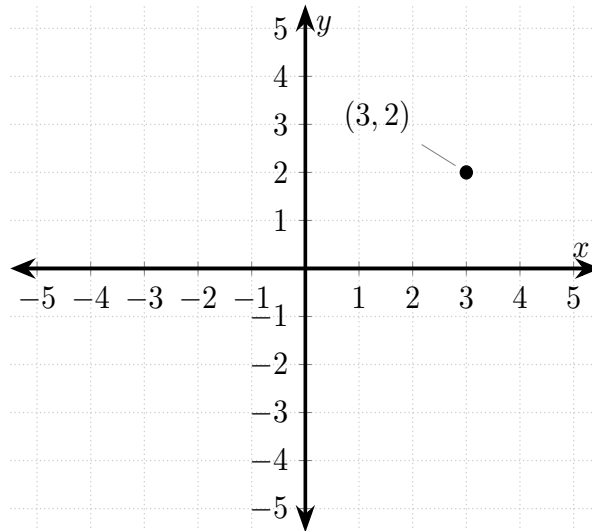
Coordinate Plane (2D Number Plane)



Coordinate Plane with coordinates (3,2),

```
\addplot [
  mark=*
]
coordinates {(3,2)}
node[pin=150:{$(3,2)$}]{};
```

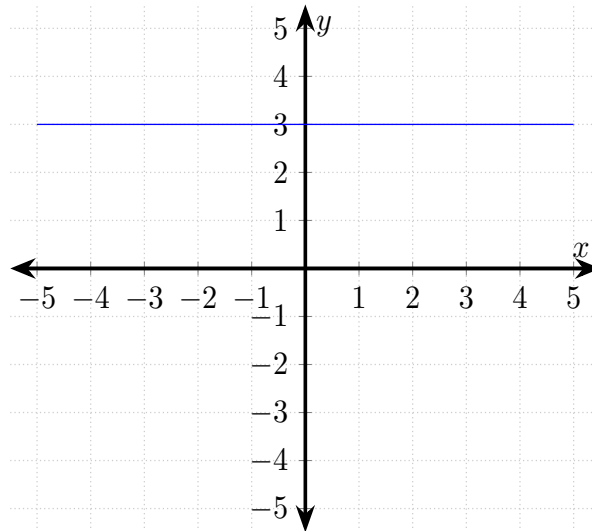
Coordinate Plane (2D Number Plane)



Coordinate Plane with blue line at $y = 3$,

```
\addplot [
  color=blue ,
  mark=none
]
{+3};
```

Coordinate Plane (2D Number Plane)



Coordinate Plane with red equation $y(x) = 2x + 1$,

```
ylabel={f(x)},
\addplot[
    domain= -7:7,
    samples=50,
    color=red
]
{2*x + 1};
```

Coordinate Plane (2D Number Plane)

