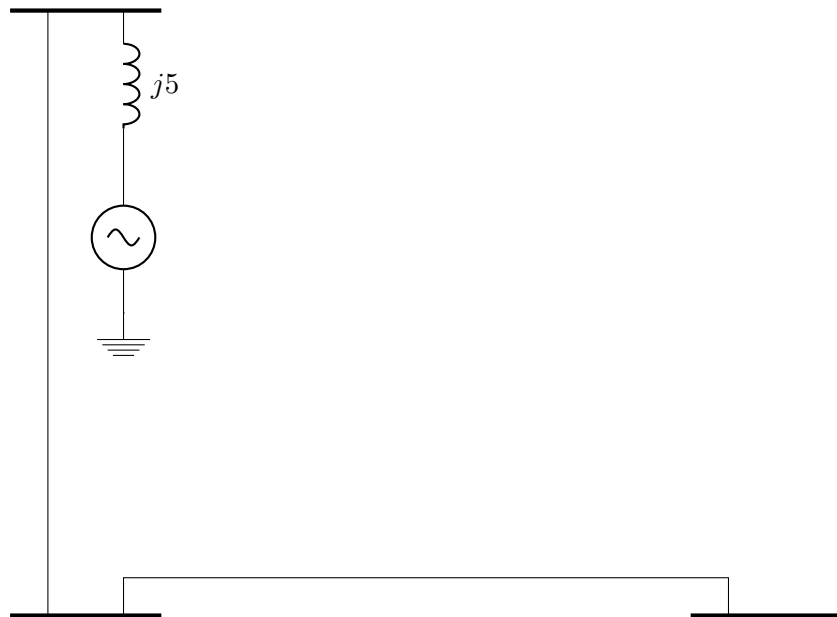Circuit diagram


```
\begin{circuitikz}
%\draw [help lines] (0,0) grid (15,20);

\draw [ultra thick] (1,18)--(3,18);
\draw [ultra thick] (1,10) --(3,10);
\draw [ultra thick] (10,10) --(12,10);
\draw (2.5,18) to [L=$j5$] (2.5,16) to [sV] (2.5,14) -- node[ground] {}(2.5,14);

\foreach \x / \xtext in {1.5/A,2/B,2.5/C}
\foreach \y / \ytext in {10/1,18/2}
{
\node at (\x,\y) (\ytext \xtext) {};

};
\draw (1A.center) -- (2A.center);
\draw (1C.center) |- +(0,0.5cm) -- +(8,0.5) |- +(8,0);
\end{circuitikz}
```