

# Latex Example, Equation Cases

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## 1 Two Cases

```
x =  
\begin{cases*}  
-x & \text{if } x < 0 \\  
\phantom{-}x & \text{if } x \geq 0 \\  
\end{cases*}
```

$$x = \begin{cases} -x & \text{if } x < 0 \\ x & \text{if } x \geq 0 \end{cases}$$

$$x = \begin{cases} -x & \text{if } x < 0 \\ x & \text{if } x \geq 0 \end{cases} \tag{1}$$

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\*<https://fanwangecon.github.io>, repository: [Tex4Econ](#)

## 2 Two Cases, same line

```

\begin{equation*}
f(x) = \begin{cases}
0 & \& \text{if } x < 0 \\
1 & \& \text{if } x \geq 0
\end{cases} \quad \\
g(x) = \begin{cases}
f(x)+1 & \& \text{if } x < 0 \\
f(x)-1 & \& \text{if } x \geq 0
\end{cases} \\
\end{equation*}

```

$$f(x) = \begin{cases} 0 & \text{if } x < 0 \\ 1 & \text{if } x \geq 0 \end{cases} \quad g(x) = \begin{cases} f(x) + 1 & \text{if } x < 0 \\ f(x) - 1 & \text{if } x \geq 0 \end{cases}$$

$$f(x) = \begin{cases} 0 & \text{if } x < 0 \\ 1 & \text{if } x \geq 0 \end{cases} \quad g(x) = \begin{cases} f(x) + 1 & \text{if } x < 0 \\ f(x) - 1 & \text{if } x \geq 0 \end{cases} \quad (2)$$

case star

$$f(x) = \begin{cases} 0 & \text{if } x < 0 \\ 1 & \text{if } x \geq 0 \end{cases} \quad g(x) = \begin{cases} f(x) + 1 & \text{if } x < 0 \\ f(x) - 1 & \text{if } x \geq 0 \end{cases} \quad (3)$$