This is a simple template for setting up automatic report generation with GPkit. To generate this file, run

```
make model.pdf
```

in this directory.

Example Model

This example model minimizes $x + 1/x$ subject to the constraint

$$x \geq x_{min}.$$

The description above is hard coded as opposed to being derived from the Python code. This is a simple and effective way to document model equations.

The full GP, derived from the Python implementation of the model, is

$$
\begin{aligned}
& \text{minimize} && \frac{1}{x_{SimpleGP}} + x_{SimpleGP} \\
& \text{subject to} && x_{SimpleGP} \geq x_{min\,SimpleGP}
\end{aligned}
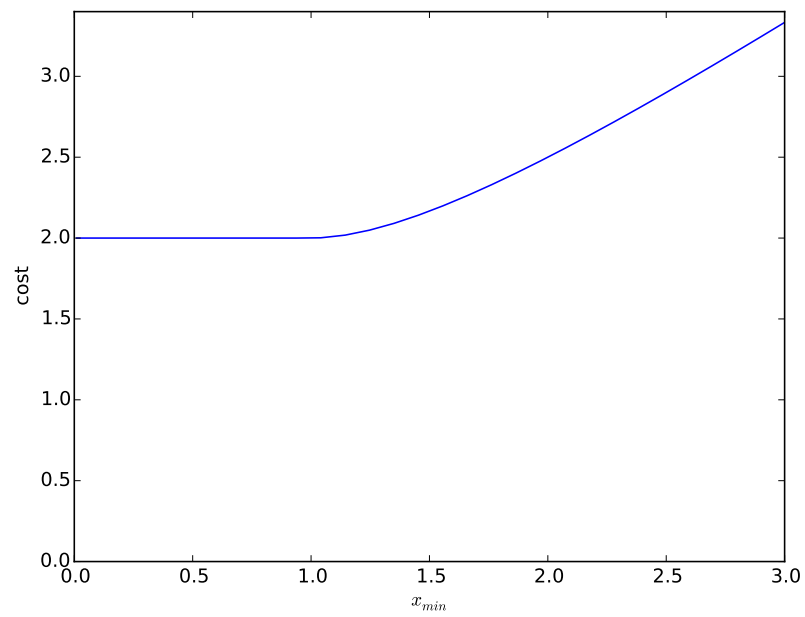$$

Sweeping over x_{min} shows the relationship between x and x_{min}.

Figure 1: xmin only has an effect when greater than 1