

1 | Tiling the Pringlehouse

As a review, our pringles shaped house has the following parametres:

$$\begin{cases} x(t) = 30\cos(t) \\ y(t) = 20\sin(t) \end{cases} \quad (1)$$

and the roof is defined by:

$$r(x, y) = \frac{1}{400} \left(\sqrt{3}x - y \right)^2 - \frac{1}{400} \left(\sqrt{3}y - x \right)^2 + 10 \quad (2)$$

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