## Exercise 71

Find the equation of the line perpendicular to the line $g(x)=-0.01 x+2.01$ through the point $(1,2)$.

## Solution

The line perpendicular to the given one has the negative reciprocal slope: $m=1 / 0.01=100$. Use the point-slope formula to get the equation of the line going through $(1,2)$.

$$
\begin{gathered}
y-2=100(x-1) \\
y-2=100 x-100 \\
y=100 x-98
\end{gathered}
$$

