

## Test Problem with Image and Equations

This is a test problem that includes an image and some equations.

\question What is the value of  $x$  in the equation below?

$$2x + 3 = 7 \tag{1}$$

For reference, here is another equation:

$$\frac{x^2 - 4}{3x + 6}$$

And here is an image:

\begin{figure}[htbp] \centering \includegraphics{test\image.png} \caption{Test Image} \label{fig:test} \end{figure}

## Solution

To solve the equation  $2x + 3 = 7$ , we subtract 3 from both sides:

$$2x = 4 \tag{2}$$

Then divide both sides by 2:

$$x = 2 \tag{3}$$

Therefore, the answer is  $x = 2$ .