

Assignment Title

Name

Problem 1

This is the [Word \$\text{\LaTeX}\$](#) template. Click any region to start creating your document. Type **Ctrl+Shift+S** to quickly switch styles. You can create headers with the **H1**, **H2**, and **H3** styles. Clear styles by reverting to the **Normal** style.

Part A

Proof. You can start a proof using the **proof** style. Inline styles must be cleared using **Ctrl+Shift+Z**. You can add **Inline Code** similarly. If you have added the AutoCorrect entries, end a proof by pressing **tab** and **\qed** to add a box. \square

You can double-click the space between pages if you want to hide the margins while editing.¹

Part B

Press **Alt+=** to enter math mode. Math can be inserted inline or on a new line. Many \LaTeX commands are supported. Parentheses are used for grouping instead of curly braces. $\forall x, 0 \cdot x = 0$.

$$\begin{aligned}\int_3^4 2x + 2x &= \int_3^4 4x \\ &= [2x^2]_3^4 \\ &= 32 - 18 \\ &= 14\end{aligned}$$

¹ Footnote

Problem 2

Insert code blocks using the Source Code style.

```
def M_HALTS(<M,x>):  
    def helper(y):  
        run M(x)  
        accept  
    return M_ACCEPT(helper,  $\epsilon$ )
```

Enter normal mode to leave the code block.

Part A

Add footnotes from the reference tab or with **Alt+Ctrl+F**.²

If installed, the [WordTeX](#) plugin can convert between [WordTeX](#) and \LaTeX . Conversions are available in the Add-ins tab of the ribbon and from the save/open dialogs. Pandoc is required for this. <https://pandoc.org/>

Subsubsection

Always use the Microsoft Print to PDF printer to export to PDF. The built-in export option does not embed fonts correctly.

The Enumerate and Itemize styles add lists

1. This list uses enumerate
 - (a) It creates a multilevel list
 - i. Tab increases the indent level
 - (b) **Shift+tab** decreases the level.

The Normal style exits the list

² This is a footnote

- Itemize creates a bulleted list
 - It also supports multiple levels

Visit <http://www.tomwildenhain.com/wordtex> to check for updates.