$$
\begin{align*}
x^{2} & -3 x+4  \tag{1}\\
3 x+6 & =8 \\
3 & =1+2 \\
3 & =4  \tag{4}\\
(2 x+1) & =x+(x+1) \tag{5}
\end{align*}
$$

(2)
(3)

1) Definitions have to stay the same when yo o replace an equation with an equivalent one.
2) Do we wont to focus on form or troth?
\& Preview File Edit View co Tools Bookmarks Window Help § \& (1) - Mon 1:45 PM a

$3 x$ s.t $3 x+6=8$

- There exists a number $x$ such that $3 x+6=8$
- The number $x=53$ is not a solution to the equation $3 x+6=$

8. 

- If $x=2 / 3$ then $x+6=8$
$\forall x \ldots$
- For all numbers $x$ we have $2 x+1=x+(x+1)$


## 

An equation is...

## $3=4$

a numerical statement that sees two mathematical values equivalent to each other.
a statement that includes an equal sign where the value on either side is equivalent. a mathmatioal statement eared denies eqeacky.
A relationship between 2 mathematical Statements
a direct comparison between 2 mathematical
statements using on equal sionö
a a statement with an equal sign which asserts the equivalence of two quantities



Rules of arithmetic (Tings that come after the because).
Commutative law...

