What did we learn?

- Create equations using `align`
- Why avoid `$` and blank lines
- Align equations using `&`
- Insert text between eqn. with `intertext`
- If there is no text in between equations, use `\\`

Assignment 1: Recall all of the above
2. Create these equations

\begin{align*}
a &= b + c \\
abcd &= f + g + h
\end{align*}
2. Create these equations

\[
a = b + c
\]
\[
abcd = f + g + h
\]

These equations are created by

\begin{align*}
a &= b + c \\
abcd &= f + g + h
\end{align*}
3. Align them

Align the equations as given here:

\[ a = b + c \]
\[ abcd = f + g + h \]
4. What if you forget &

Suppose you forget & in second equation:

\begin{align*}
    a & = b + c \\
    abcd & = f + g + h
\end{align*}
4. What if you forget &

Suppose you forget & in second equation:

\begin{align*}
a \ &= \ b + c \\
abcd \ &= \ f + g + h
\end{align*}

You get this output:

\begin{align*}
a &\ = \ b + c \\
abcd &\ = \ f + g + h
\end{align*}
5. Align differently

How do you produce the following?

\[ a = b + c \]

\[ abcd = f + g + h \]

Hint: \& should be put in a different place!
6. Align three equations

$$\alpha = \beta + \gamma$$  \hspace{1cm} (1)

$$\alpha + \beta = \frac{\gamma}{\delta} + \delta \int \mu d\mu$$  \hspace{1cm} (2)

$$\alpha + \beta \mu = \gamma \delta$$  \hspace{1cm} (3)
6. Align three equations

\[ \alpha = \beta + \gamma \]  \hspace{1cm} (1)

\[ \alpha + \beta = \frac{\gamma}{\delta} + \delta \int \mu d\mu \] \hspace{1cm} (2)

\[ \alpha + \beta\mu = \gamma \delta \] \hspace{1cm} (3)

\begin{align*}
\alpha & = \beta + \gamma \\
\alpha + \beta & = \frac{\gamma}{\delta} + \delta \int \mu d\mu \\
\alpha + \beta\mu & = \gamma \delta
\end{align*}
Insert some text between equations:

\[ \alpha = \beta + \gamma \]  \hspace{1cm} (1)

\[ \alpha + \beta = \frac{\gamma}{\delta} + \delta \int \mu d\mu \]  \hspace{1cm} (2)

\[ \alpha + \beta \mu = \gamma \delta \]  \hspace{1cm} (3)