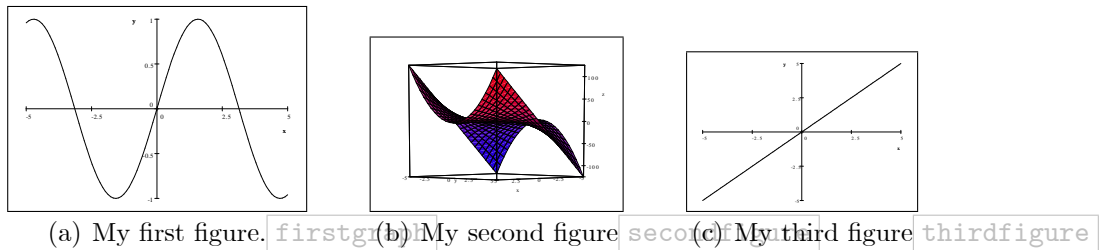


1 Lesson 9: Latex packages

1.1 Subfigure



`twofigures`

Figure 1: Three figures

Figure 1(a) is a graph of $y = \sin x$. Figure 1(b) is a surface. Figure 1(c) is just a line. Figure 1 shows all figures.

```
\begin{figure}[h]
\begin{center}
\subfigure[My first figure.\label{firstgraph}]
```

```
\quad\quad\subfigure[My second figure\label
{secondfigure}]
```

```
\caption{Three figures}
\label{twofigures}
\end{center}
\end{figure}
```

```
TCIMACRO{\TeXButton{Ref: first graph}\ref{twofigures}}%BeginExpansion\ref{twofigures}
TCIMACRO{\TeXButton{Ref: first graph}\ref{firstgraph}}%BeginExpansion\ref{firstgraph}
TCIMACRO{\TeXButton{Ref: second graph}\ref{secondfigure}}%BeginExpansion\ref{secondfigure}
```

1.2 Multicolumns

- $-\frac{1}{45} \frac{(9+4x^2)^{5/2}}{x^5} + C$
- $-\frac{1}{45} \frac{(9-4x^2)^{5/2}}{x^5} + C$
- $\frac{1}{45} \frac{(9-4x^2)^{5/2}}{x^5} + C$

4. $\frac{1}{4} \ln \left| \frac{\sqrt{9+4x^2}-3}{x} \right| + C$

5. $\frac{1}{3} \ln \left| \frac{\sqrt{9+4x^2}-3}{x} \right| + C$

6. None of these

2 Project 9

Instructions: Create a file containing text and mathematics of your choice that demonstrates three typesetting style files. Your document should include some basic instructions on how to employ the style files as well as some examples of their use. Some or all of your document contents will be shared with the other students in the class so that all students may review your instructions and examples. Submit .rap and .pdf (or .dvi) versions of your file to teprice@uakron.edu. The name of your files should be of the form **yourlastname09.rap** and **yourlastname09.pdf(dvi)**. All calculations should be done using the CAS in SWP.