Lesson 10: More on graphs, citations

A conditional or piecewise-defined function is one that requires more than one equation to describe its behavior. For example,

$$f(x) = \begin{cases} 
  x & \text{if } x \geq 1 \\
  -1 & \text{if } x < 1
\end{cases}$$

is a conditional function. These are easy to graph.

$$f(2) = 2$$
\[
\frac{x+1}{x-1} [2]
\]

\[
g(x)
\]
\[
\begin{bmatrix}
1 & 2 & 4 & 5 \\
2 & 3 & 6 & 5
\end{bmatrix}
\]

\((1, 2, 2, 3, 4, 6, 5, 5)\)
$y = (x^3, x)$

$y = 1 - \sin \theta + 2 \sin 3\theta$
2 Project 10

Instructions: Create a file containing a collection (10-15) of 2D and 3D graphs of your choice that demonstrate the graphing capabilities of SWP. Your doc-
ument should also include two referenced citations. You do not need to include extra text. However, if you learn something interesting about graphing, include some comments presenting your findings. Submit a .rap version of your file to teprice@uakron.edu. The name of your file should be of the form yourlastname10.rap. Be sure to include the graphs in your rap file but not the style files. All calculations should be done using the CAS in SWP.

References

[4] kckckckck