More Math

The “amsmath” package allows for two environments to help type complicated equations.

- The “cases” environment opens a large brace at the beginning of a multi-line function.
- The “aligned” environment allows you to align any part of a multi-lined equation.

In addition, the “quad” command is used to create extra horizontal space.

\[ y = 4 + \begin{cases} 
\cos x & \text{if } x < -7\sqrt{2} \\
 x^2 - \sqrt{x} + \sin x & \text{if } x \geq 8 
\end{cases} \]

Example of the Units package

The “units” package allows you to type nice looking scientific units in the middle of some text. For example, it is useful to know that \(60 \text{ mi/hour}\) is equivalent to \(88 \text{ ft/sec}\).