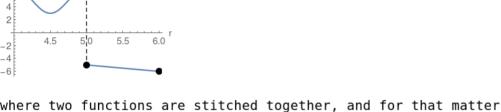
Piecewise Functions

To define piecewise means that the function values and graphs are defined over a particular and generally limited section of the r-axis

$$\begin{cases} 2\cos(2\pi r) + 5 & 4 < r < 5 \\ -r & 5 \le r \le 6 \end{cases}$$

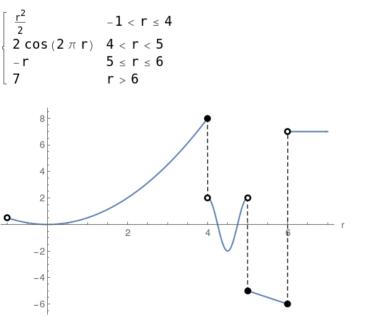


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could be pieced differently i.e. swapped:

$$\begin{bmatrix} -r & 4 < r < 5 \\ 2\cos(2\pi r) + 5 & 5 \le r \le 6 \end{bmatrix}$$

More and more complicated functions could be stitched together:



Solid disk corresponds to inclusion of the point or any of « » = operators

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Hollow disk corresponds to the exclusion or any of the < > operators