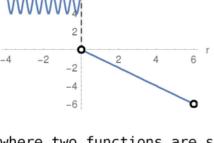
Piecewise Functions

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



where two functions are stitched together, and for that matter could be pieced differently i.e. swapped:

 $-6 \le r < -4$

0 < r < 6

 $\cos(4\pi r)$ $-4 \le r \le 0$

 $\int \frac{r^2}{3} - r$

 $\cos (4\pi r) + 5 0 < r < 6$

 $-4 \le r \le 0$

More and more complicated functions could be stitched together:

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

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