 Calculating the area between curves

Example 1

Calculate the areas between the curves defined by and



[Geogebra applet](https://ggbm.at/pstvretz)

Find the points of intersection

 - equation 1

 - equation 2

Substitute equation 1 into 2

 and

or and

Example 2

Calculate the area between the curves and from to



[Geogebra applet](https://ggbm.at/jupkauu6)