

8 Area between two curves – Part 1

—Answers

Answers

Work through these after you have tried the questions yourself.

2.1 $\text{area} = \int (\text{top} - \text{bottom}) dx$.

2.2 the area under the top curve minus the area under the bottom curve leaves exactly the region between them.

2.3 $\int (6 - x^2) dx$ (the top curve 6 minus the bottom curve x^2).

2.4 set the two functions equal to find the x -values where they cross; those are the limits.

2.5 you have subtracted the wrong way round (bottom minus top) –swap them.