

# Answers: Area between two curves

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## Summary

Answers to questions relating to the guide on area between two curves.

*These are the answers to [Questions: Area between two curves](#).*

**Please attempt the questions before reading these answers!**

## Answers

### Q1

- 1.1. 4
- 1.2.  $\frac{16}{3}$
- 1.3.  $\frac{8}{3}$
- 1.4. 2
- 1.5.  $\ln(2)$
- 1.6.  $\frac{8\sqrt{2}}{3}$
- 1.7.  $\frac{4}{3}$
- 1.8.  $\frac{1}{6}$
- 1.9.  $\frac{1}{4}$
- 1.10.  $\frac{8}{3}$

### Q2

- 2.1. 2
- 2.2. 2
- 2.3. 1

- 2.4. 2
- 2.5.  $\frac{2}{3}$
- 2.6. 1
- 2.7. 2
- 2.8. 1
- 2.9.  $1 + \frac{1}{2\sqrt{2}}$

### Q3

- 3.1.  $\frac{10}{3}$
- 3.2. 18
- 3.3.  $\frac{32}{3}$
- 3.4.  $\frac{16}{3}$
- 3.5.  $\frac{125}{12}$
- 3.6.  $\frac{32}{3}$
- 3.7.  $\frac{9}{2}$
- 3.8.  $\frac{27}{2}$

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## Version history and licensing

v1.0: initial version created 05/25 by Donald Campbell as part of a University of St Andrews VIP project.

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