Answers: Definite integration

Donald Campbell

Summary

Answers to questions relating to the guide on definite integration.

These are the answers to Questions: Definite integration.

Please attempt the questions before reading these answers!

Answers

Q1

- 1.1. 6
- 1.2. 0
- 1.3. $\frac{21}{2}$
- 1.4. 120
- 1.5. $\frac{20}{3}$
- 1.6. $\frac{1462}{5}$
- 1.7. $\frac{8}{3}$
- 1.8. $\frac{171}{4}$

Q2

- 2.1. 48
- 2.2. $\frac{91}{3}$
- 2.3. $\frac{52}{5}$
- 2.4. 24
- 2.5. $-\frac{29}{6}$
- 2.6. 10

- 2.7. 38
- 2.8. 20
- 2.9.
- 2.10.

Q3

- 3.1. 1
- 3.2. 0
- 3.3. 1
- 3.4. 0
- 2 3.5.
- $\frac{1}{2}$ 3.6.
- 3.7.
- 3.8. 0
- 3.9.
- 0 3.10.

Q4

- 4.1. $\frac{\sqrt{3}}{4}$ 4.2. $-\frac{1}{3} \frac{1}{3\sqrt{2}}$
- 4.3. $\frac{\sqrt{3}+1}{2}$
- 4.4. $-\frac{\sqrt{3}}{4}$

- 4.5. 0
 4.6. $-\frac{1}{2}$ 4.7. 0
 4.8. $\sqrt{2} \frac{1 + \sqrt{3}}{2}$
- 4.9. $-\frac{1}{6}$

4.10.
$$-\frac{\sqrt{2}}{3}$$

Version history and licensing

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

This work is licensed under CC BY-NC-SA 4.0.