Answers: Definite integration

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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. $\frac{39}{4}$

2.10. $\frac{62}{3}$

Q3

3.1. 1

3.2. 0

3.3. 1

3.4. 0

3.5. 2

3.6. $\frac{1}{2}$

3.7. 0

3.8. 0

3.9. $\frac{1}{2}$

3.10. 0

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

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