



Video Solution on Website:-

<https://physicsaholics.com/home/courseDetails/36>

Video Solution on YouTube:-

<https://youtu.be/B8q0FwLlIkE>

Written Solution on Website:-

<https://physicsaholics.com/note/notesDetails/70>

- Q 1. Find $\int_1^3 x \, dx = ?$
(a) 2 (b) 4 (c) 6 (d) 8
- Q 2. Find $\int_{-2}^1 (5z^2 - 7z + 3) \, dz = ?$
(a) 69 (b) $-\frac{69}{2}$ (c) $\frac{69}{2}$ (d) $\frac{89}{2}$
- Q 3. Find $\int_0^{\frac{\pi}{2}} (7 \sin t - 2 \cos t) \, dt = ?$
(a) π (b) 5 (c) $\frac{\pi}{2}$ (d) $\frac{5}{2}$
- Q 4. Find $\int_5^2 \left(\frac{2}{y}\right) \, dy = ?$
(a) $2 \ln(2 - 5)$ (b) $\ln \frac{2}{5}$
(c) $2 \ln 2 - \ln 5$ (d) $2 \ln \frac{2}{5}$
- Q 5. Find $\int_{-1}^1 (2e^x) \, dx = ?$
(a) $2 \left(\frac{e^2 - 1}{e}\right)$ (b) $2 \left(\frac{e^2}{e - 1}\right)$
(c) $2(e^2)$ (d) $2(e^2 - 1)$
- Q 6. Find $\int_1^2 \left(x^2 + \frac{1}{x^2}\right) \, dx = ?$
(a) 17 (b) $\frac{17}{6}$
(c) 27 (d) $\frac{27}{6}$
- Q 7. Find $\int_e^{e^2} \frac{dx}{x} = ?$
(a) 1 (b) $\frac{1}{2}$
(c) e (d) $\frac{1}{e}$
- Q 8. Find $\int_0^{\frac{\pi}{2}} \sin\left(2x + \frac{\pi}{4}\right) \, dx = ?$
(a) $\frac{1}{2}$ (b) $\frac{1}{\sqrt{2}}$



(c) $\frac{1}{2\sqrt{2}}$

(d) $\sqrt{2}$

Q 9. Find $\int_0^1 \frac{1}{(x+1)} dx = ?$

(a) zero

(b) $\ln 2$

(c) $\ln 3$

(d) $2 \ln 2$

Q 10. Find $\int_{-1}^1 (3x + 2)^3 dx = ?$

(a) 50

(b) 51

(c) 52

(d) 53

Q 11. Find $\int_0^4 \frac{1}{\sqrt{x}} dx = ?$

(a) 1

(b) 2

(c) 3

(d) 4

Q 12. Find $\int_0^{\frac{\pi}{2}} (e^x + \sin x) dx = ?$

(a) $e^{\frac{\pi}{2}}$

(b) $e^{\frac{\pi}{2}} + 1$

(c) $e^{\frac{\pi}{2}} - 1$

(d) 1

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Answer Key

Q.1 b	Q.2 c	Q.3 b	Q.4 d	Q.5 a
Q.6 b	Q.7 a	Q.8 b	Q.9 b	Q.10 c
Q.11 d	Q.12 a			