AP Calculus **Revision** **Time: 30 Minutes**

Name: _____ **Grade/Section:** _____ **Date:** / / 2026

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Q1) Choose the correct answer. Evaluate each integral.

1. $\int_0^2 (3x^2 + 2x)\,dx$

a. 8

b. 10

c. 12

d. 14

2. $\int_{-1}^1 (x^3 + x)\,dx$

a. 0

b. 1

c. 2

d. -1

3. $\int_1^3 (2x^2 - 4)\,dx$

a. 8

b. 10

c. 12

d. 14

4. $\int_0^1 (4x^3 - x)\,dx$

a. 0

b. 1/2

c. 3/4

d. 1

5. $\int_0^4 \sqrt{x}\,dx$

a. 8

b. 16/3

c. 32/3

d. 4

6. $\int_1^9 \frac{1}{\sqrt{x}}\,dx$

a. 2

b. 4

c. 6

d. 8

7. $\int_0^1 x\sqrt{x}\,dx$

a. 1/2

b. 2/5

c. 3/5

d. 1/3

8. $\int_0^\pi \sin x\,dx$

a. 0

b. 1

c. 2

d. π

9. $\int_0^{\frac{\pi}{2}} \cos x\,dx$

a. 0

b. 1

c. π/2

d. 2

10. $\int_0^\pi \sin^2 x\,dx$

a. π

b. π/2

c. 1

d. 2

11. $\int_0^1 e^x\,dx$

a. e

b. e − 1

c. 1

d. e + 1

12. $\int_0^2 e^{2x}\,dx$

a. $e^4 - 1$

b. $(e^4 - 1)/2$

c. $2e^2$

d. $e^2 - 1$

13. $\int_1^2 e^x\,dx$

a. $e^2 - e$

b. $e^2 + e$

c. e − 1

d. $e^2 - 1$

14. $\int_1^e \frac{1}{x}\,dx$

a. 0

b. 1

c. e

d. ln(e)

15. $\int_1^{e^2} \frac{1}{x}\,dx$

a. 1

b. 2

c. e

d. e^2

LIVEWORKSHEETS