

Aşağıdaki soruları cevapları ile eşleştiriniz.

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| 1) $\int_0^1 (4x^3 + 2x - 1) dx$ | a) $\frac{\pi}{6}$ |
| 2) $\int (1 + \cos^2 x) dx$ | b) $3 + \frac{3}{2} \ln \frac{3}{2}$ |
| 3) $\int_{-1}^{-2} \frac{dx}{1-e^x}$ | c) 1 |
| 4) $\int (2\sin x + \cos x) dx$ | d) $-\ln(e+1)$ |
| 5) $\int \frac{1-\sin 2x}{1-\cos^2 x} dx$ | e) $-2\cos x + \sin x + C$ |
| 6) $\int \frac{6x^2 \ln(x^3+1)}{1+x^3} dx$ | f) $\frac{3x}{2} + \frac{\sin 2x}{4} + C$ |
| 7) $\int \ln(x^3 + 3x^2 + 3x + 1) dx$ | g) $e^2 + 1$ |
| 8) $\int \frac{\ln x}{x} x^{\ln x} \cdot dx$ | h) $-\cot x - \ln 1-\cos^2 x + C$ |
| 9) $\int_2^3 \frac{3x^2}{x^2-1}$ | i) $\frac{1}{2} x^{\ln x} + C$ |
| 10) $\int_{-1}^{-1/2} \frac{d(x+1)}{\sqrt{-x^2-2x}}$ | j) $\ln^2(x^3 + 1) + C$ |

