

Choose the correct answer

$\int_0^1 x^3 \cos(x^4 + 2) dx$  and  $u = x^4 + 2$  then

a)  $4 \int_2^3 \cos u du$     b)  $-4 \int_0^1 \cos u du$     c)  $-\frac{1}{4} \int_2^3 \sin u du$

d)  $\frac{1}{4} \int_0^1 \sin u du$     e)  $\frac{1}{4} \int_2^3 \cos u du$

$$2. \int x^3 \cos(x^4 + 2) dx$$

$$3. \int \frac{x^3}{(2 + x^4)^5} dx$$

$$4. \int \frac{x^3}{2 + x^4} dx$$

$$5. \int \frac{5}{x^2 + 81} dx$$

$$6. \int x \sec^2(2x) dx$$

$$7. \int e^{2x} \sin(3x) dx$$

$$8. \int \frac{x + 5}{x^2 + x - 2} dx$$

$$9. \int \frac{4x + 2}{x^2 + x - 2} dx$$