

Complete the table

f

f'

f''

1) x^3

2) x^2

3) $\frac{1}{x^2}$

4) e^{3x}

5) x^2

6) x^3

7) e^{2x}

8) $\sin 2x$

9)

f

f'

f''
 e^{2x}

10)

$$\frac{1}{x+1}$$

11)

$$\sec 2x \tan 2x$$

12)

$$\cos 2x$$

Evaluate and or ~~also~~ find the integral.

$$\textcircled{1} \int x dx \quad \textcircled{2} \int e^{3x} dx \quad \textcircled{3} \int \sin 4x dx$$

$$\textcircled{4} \int (2x+1)^7 dx$$

$$\textcircled{5} \int (1-x)^6 dx$$

$$\textcircled{6} \int \frac{x}{(x^2-1)} dx$$

$$\textcircled{7} \int x(x^2-1)^7 dx$$