

$$\textcircled{1} \int_{\pi/6}^{\pi/2} \cos x \, dx$$

$$\textcircled{2} \int_{-1}^4 x^2 + 3x \, dx$$

$$\textcircled{3} \int 4x \sin(x^2) \, dx$$

$$\textcircled{4} \int \tan(4x) \sec^2(4x) \, dx$$

$$\textcircled{5} \int_2^5 x^3 \sqrt{12+x^4} \, dx$$

$$\textcircled{6} \int \sqrt{x} (x^3 - 6x + 5) \, dx$$