

P. 356 Section 8.2 Oral Exercises

① $\int x^{10} dx = \frac{x^{11}}{11} + C$ ③ $\int 1 dx = x + C$

⑤ $\int 2x^3 dx = \frac{x^4}{2} + C$ ⑦ $\int x^{1/2} dx = \frac{2}{3} x^{3/2} + C$

⑨ $\int x^{8/5} dx = \frac{5}{13} x^{13/5} + C$ ⑪ $\int x^{-10} dx = \frac{x^{-9}}{-9} + C$

⑬ $\int x^{-1} dx = \ln|x| + C$ ⑮ $\int 10x^{-6} dx = -2x^{-5} + C$

⑰ $\int x^{-4/3} dx = -3x^{-1/3} + C$ ⑲ $\int \sqrt[4]{x} dx = \int x^{1/4} dx = \frac{4}{5} x^{5/4} + C$

⑳ $\int \cos x dx = \sin x + C$ ㉓ $\int e^x dx = e^x + C$

㉕ $\int \cos 4x dx = \frac{\sin 4x}{4} + C$ ㉗ $\int e^{8x} dx = \frac{e^{8x}}{8} + C$
 $= \frac{1}{4} \sin 4x + C$ $= \frac{1}{8} e^{8x} + C$

㉙ $\int \cos\left(\frac{5}{3}x\right) dx = \frac{3}{5} \sin \frac{5}{3}x + C$