

Work the first problem in the space provided. Circle your answer. Find your answer among the choices. Put #2 in the problem blank. Work that question and proceed in this manner until finished. Make sure you clearly communicate in each cell how you are getting your answer. 😊

Answer: $4\ln x + \frac{2}{3x^6} + C$ # <u>1</u> $\int 2x \, dx$	Answer: $\frac{5}{8}x^{8/5} + C$ # _____ $\int \frac{4}{x^2} \, dx$
Answer: $x^3 + x^2 + C$ # _____ $\int \frac{1}{x^5} \, dx$	Answer: $\frac{2}{3}x^{3/2} + C$ # _____ $\int \sqrt[3]{x^2} \, dx$
Answer: $\frac{-4}{x} + C$ # _____ $\int (5 - \cos x) \, dx$	Answer: $x^2 + C$ # _____ $\int 5\cos x \, dx$
Answer: $\frac{1}{9}x^9 + C$ # _____ $\int 5\sin x \, dx$	Answer: $\frac{1}{3}x^9 + C$ # _____ $\int \sec^2 x \, dx$
Answer: $\frac{1}{2}x^2 - e^x + C$ # _____ $\int x^{5/3} \, dx$	Answer: $-\frac{2}{x^2} + C$ # _____ $\int (\sec x \tan x - \sin x) \, dx$
Answer: $\frac{3}{8}x^{8/3} + C$ # _____ $\int \sqrt{x} \, dx$	Answer: $-5\cos x + C$ # _____ $\int 2e^x \, dx$

Answer: $5\sin x + C$ # _____ $\int 3x^2 dx$	Answer: $\tan x + C$ # _____ $\int x^{3/5} dx$
Answer: $5x - \sin x + C$ # _____ $\int (x - e^x) dx$	Answer: $x^3 + C$ # _____ $\int x^8 dx$
Answer: $2e^x + C$ # _____ $\int (3x^2 + \cos x) dx$	Answer: $\sec x + \cos x + C$ # _____ $\int \left(x - \frac{1}{x}\right) dx$
Answer: $\frac{3}{5}x^{5/3} + C$ # _____ $\int 3x(x - 1) dx$	Answer: $x + \cos x + C$ # _____ $\int 3x^8 dx$
Answer: $-\frac{1}{4x^4} + C$ # _____ $\int \left(\frac{4}{x} - \frac{4}{x^7}\right) dx$	Answer: $x^3 + \sin x + C$ # _____ $\int (1 - \sin x) dx$
Answer: $\frac{1}{2}x^2 - \ln x + C$ # _____ $\int (3x^2 + 2x) dx$	Answer: $x^3 - \frac{3}{2}x^2 + C$ # _____ $\int \frac{4}{x^3} dx$