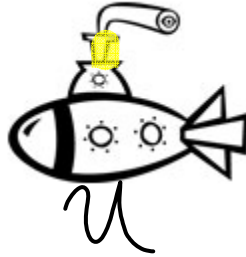


**I am the Captain of the U-Sub!** \_\_\_\_\_

There is only one way to ascend to the captaincy – practice, practice, practice!



This is the u-sub!

Please show your steps! [Thank you]

1.  $\int (\sin(3x) + \cos(3x)) dx$

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

3.  $\int 10x^9 (x^{10} + 25)^7 dx$

4.  $\int 3x^2 h'(x^3) dx$

5.  $\int x^7 \sqrt{x^8 + 3} dx$

6.  $\int \frac{x^7}{\sqrt{x^8 + 3}} dx$

7.  $\int \sec^2 \theta \tan^4 \theta \, d\theta$

8.  $\int x^2 \cos(x^3) \, dx$

9.  $\int (x^3 + \cos x)^6 (3x^2 - \sin x) \, dx$

10.  $\int \frac{2x}{\sqrt{x^2 + 8}} \, dx$