

## Who U?

1.  $\int x^3 e^{-4x} dx$  It would be best to differentiate  $u =$  \_\_\_\_\_ and antidifferentiate \_\_\_\_\_
2.  $\int e^{3x} \sin 2x dx$  It would be best to differentiate  $u =$  \_\_\_\_\_ and antidifferentiate \_\_\_\_\_
3.  $\int x^2 \cos^{-1} x dx$  It would be best to differentiate  $u =$  \_\_\_\_\_ and antidifferentiate \_\_\_\_\_
4.  $\int x \sin 2x dx$  It would be best to differentiate  $u =$  \_\_\_\_\_ and antidifferentiate \_\_\_\_\_
5.  $\int x \ln x dx$  It would be best to differentiate  $u =$  \_\_\_\_\_ and antidifferentiate \_\_\_\_\_
6.  $\int \ln x dx$  It would be best to differentiate  $u =$  \_\_\_\_\_ and antidifferentiate \_\_\_\_\_
7.  $\int \ln x \cos x dx$  It would be best to differentiate  $u =$  \_\_\_\_\_ and antidifferentiate \_\_\_\_\_