QTips: Quiz Tips for Quiz 1 11am

The following are reminders of what you will/won’t need for your quizzes.

1) You’ll need to know derivatives and integrals of basic functions like sine, cosine, powers of x, logs and exponentials. You won’t need to know sinh or cosh – for now.

2) You’ll need to know values of sine and cosine for multiples of \( \frac{\pi}{4} \), and of \( \ln(x) \) for \( e^0, e^1, e^2 \), etc.

3) You’ll need to change limits of integration in a u-sub for definite integrals. And you need to show explicit work – showing how you got your result. For example, if you change

\[
\int_1^3 \, dx \quad \text{to} \quad \int_0^8
\]

when \( u = x^2 - 1 \), you should write out explicitly that when \( x = 3 \), \( u = 9 - 1 = 8 \)

That’s pretty much it ...