MA 166: Quiz 5

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You have **15 minutes** to complete this quiz. You may work in groups, but you are not allowed to use any other resources.

Problem 1. Evaluate the integral

$$\int_0^{\pi/2} \cos^2 x \; dx.$$

Problem 2. Evaluate the integral

$$\int \frac{x^2}{\sqrt{4 - x^2}} \; dx.$$

(Use C for the constant of integration.)

Problem 3. Evaluate the integral

$$\int \frac{e^x}{1 - e^{2x}} \; dx$$

[HINT: First use a substitution and then partial fractions.]