Math 4241: Integral Calculus & Differential Equations **ID:**
Quiz 1 **28th December 2021**

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1. Determine ***f(x)*** given that ***f'(x)= 12x^2- 4x*** and ***f(-3)= 17*** **6 (CO2)**
2. Find the area under the curve bounded by ***y= x*** inside the limit **[0,b]** using both the Riemann sum and Liebniz theorem. **10 (CO1)**
3. What is the difference between the area under one hump of *sin(x)* and *sin(2x)*? **4 (CO2)**