

MAC 2312 Calculus II, Worksheet #5

Date: \_\_\_\_\_

Name: \_\_\_\_\_

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Q1) Solve  $\int (x^2 + 2x) \cos x dx$

Q2) Solve  $\int \cos(\sqrt{x}) dx$

Q3) Solve  $\int \frac{\ln y}{\sqrt{y}} dy$

Q4) Write down the first five terms of  $\int x^n \sin(3x) dx$ .

Q5) Solve  $\int \sin^6 x dx$

Q6) Solve  $\int \cos x \cos^5(\sin x) dx$

Q7) Solve  $\int \csc^4 x \cot^6 x dx$

Q8) Solve  $\int \sin(8x) \cos(5x) dx$ .