

Name: _____

Class PIN: _____

Directions:

- 1) Write up your solutions individually.
 - 2) Clearly indicate your final answer.
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For each of the following integrals, use Maple to generate a **Hint**, then use the **Rule** command to apply the hint. Write down the resulting hint from Maple, and also the result when you apply the hint with the rule command. (HINT: Remember to use the `with(Student[Calculus1])` command.)

1. (2 points) $\int \sin^2\left(\frac{x}{2}\right) dx$

2. (2 points) $\int \sqrt{\tan x} \sec^2 x dx$

3. (2 points) $\int \frac{x}{\sqrt{4-3x^3}} dx$

4. (2 points) $\int \frac{\sqrt{x}}{1+x} dx$

5. (2 points) $\int x \sin 2x dx$