

You are encouraged to work in groups of two to four on this assignment and make a single group submission. Problems 1 through 5 are each worth 2 points, and problem 6 is worth 5 points. **For full credit indicate clearly how you reached your answer.** All work must be legible and submitted on clean paper without ragged edges.

1. Find  $\int (6e^{2x} + 5x) dx$ .

2. Find  $\int z \left( 1 + \frac{1}{z} - \frac{1}{z^2} \right) dz$ .

3. Evaluate  $\int_0^{\pi/6} (\sin 3t + 3) dt$ .

4. Evaluate  $\int_0^3 x \sqrt{9 - x^2} dx$ .

5. If  $F(x) = \int_0^x \sqrt{4 + t^2} dt$ , find  $F'(x)$ .

6. Find the area of the region bounded between the graphs of  $y = 3x$  and  $y = 4 - x^2$ .

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