

YOUR NAME: _____

George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. HAPPY HALLOWEEN!!

1. Compute the indefinite integral

$$\int \frac{x(x+5)(x-7)}{x^2} dx$$

2. The rate at which the revenue of a company has been changing during the first t months of its operations is given by $r(t) = -\frac{3}{2}\sqrt{t} + \frac{1}{5}e^{t/5}$ measured in millions of dollars per month. Find an equation for the revenue $R(t)$ of the company, t months after launching of operations, given that the initial revenue was 46 million dollars due to stock flotation.

