

EG02021 Mathematics

Feedback Quiz 7: Application of Integration

Total Points 10

Name:

ID:

1. The emissions of an engine are given by $E(t) = t^2$, where $E(t)$ is the engine's rate of emission, in billions of pollution particulates per year, at time t , in years. Find the average emissions from $t=1$ to $t=5$.

2. Evaluate $\int x^2 (x^3 + 1)^{10} dx$

3. Use substitution to evaluate $\int \tan x dx$.