MATH 19 QUIZ 1 SOLUTIONS

1.
$$\int x^2 e^x dx$$

=
$$e^{x}x^{2} - \int e^{y}(x^{2})^{2} dx$$

$$= e^{\times} \times^{2} - 2 \left(e^{\times} \times - \int e^{\times} \langle x \rangle dx \right)$$

$$= e^{x}(x^{2}-2e^{x}+2e^{x})$$