## Additional Problems

April 1, 2016

Problem 1. Use integration by parts, find

$$
\begin{equation*}
\int x^{2} \cos x \mathrm{~d} x \tag{1}
\end{equation*}
$$

Problem 2. Use integration by parts, find

$$
\begin{equation*}
\int e^{x} \cos x \mathrm{~d} x \tag{2}
\end{equation*}
$$

