

**MA114 Summer II 2018**  
**Worksheet 1**

1. Compute the following integrals by using integration by parts.

a)  $\int x^2 \sin(x) dx,$

b)  $\int (2x + 1)e^x dx,$

c)  $\int x^4 \ln(x) dx,$

d)  $\int x \ln(x + 1) dx,$