

HOMEWORK #39 (M427K FALL 2004)

Evaluate the following integrals using integration by parts

1)

$$\int_0^1 \sin(3x)x^3 dx$$

2)

$$\int_0^1 \sin(2x)e^{3x} dx$$

3)

$$\int_0^2 x^3 e^{2x} dx$$

4)

$$\int_0^3 \sin(2x) \cos(3x) dx$$