

## Practice on Integration by Parts

Evaluate each of the following integrals.

1)  $\int x \sin(2x) dx$

2)  $\int_0^1 \arctan(x) dx$

3)  $\int \cos^2(3x) dx$

4)  $\int \sin(\ln(x)) dx$

5)  $\int x^9 \cos(x^5) dx$  (First make a substitution).