

WORKSHEET 1 - due at the end of class, last class of week 1.

① (a) $\int \frac{1-5x^5}{3x^4} dx$ (b) $\int_1^3 x \sqrt{x+5} dx$ (c) $\int_0^{\pi/3} \sin(t) \cos(t) dt$

② (a) $\int x^2 \sin(3x) dx$ (b) $\int x^2 \sin(x^3) dx$ (c) $\int x^5 \sin(x^3) dx$

(d) $\int x^3 e^{4x} dx$ (e) $\int \frac{1-z}{z^2+1} dz$ (f) $\int \ln w dw$

(g) $\int \tan(t) dt$