

Homework 7, due Friday 3/4

1. Find the following antiderivatives:

(a) $\int x e^{3x^2} + x e^x dx$

(b) $\int (\cos(x) + \sin(x))^2 dx$

(c) $\int 2x(x^2 + 13)^9 + \cos(3x) dx$

(d) $\int \frac{\sin(\sqrt{x})}{\sqrt{x}} + \ln(x) dx$

2. p. 325, problems (1) (a) – (c)

3. p. 327, problems (7), (9)

4. p. 340, problems (3), (6)

5. p. 347, problems (1) (a), (c) (note that in 1 (a) you should read $\int \int 1 dy dx$).

6. p. 347, problem 2 (f)

7. p. 348, problems (6), (7), (9)

8. p. 353, problems (1) (a), 2 (b), (c)