

MA 137 Worksheet #24

Section 5.10

11/12/20

1. Evaluate the following indefinite integrals:

(a) $\int (x^2 - 3x + 2 - \frac{5}{x}) dx$

(b) $\int (\sqrt[3]{x^2} + x\sqrt{x}) dx$

(c) $\int (\sec(x) \tan(x) - 2e^x) dx$

(d) $\int (2 \sin(x) - \sec^2(x)) dx$

2. Find f with the given information:

(a) $f''(t) = 2e^t + 3 \sin(t)$, $f'(0) = 6$, $f(0) = -6$.

(b) $f''(x) = -9.8$, $f'(0) = 1$, $f(0) = 2$