

Section 5.3: 19, 23, 25, 35, 37, 38, 39, 43, 45, 47

Section 5.4: 5, 6, 7, 10, 11, 12, 13, 21, 23, 27, 29, 30, 31, 33, 41, 44, 46, 53, 54, 57, 58, 59, 60,

Section 5.5:

1-6, 7, 15, 18, 20, 21, 23, 25, 37, 45

Additional problem:

(1) Do the following integrals using the simple substitution rule rule $\int f(mx+k)dx = \frac{1}{m}F(mx+k)+c$

(a) $\int \cos(3x) dx$

(b) $\int e^{3-2x} dx$

(c) $\int \cos\left(\frac{\pi x}{2}\right) dx$

(d) $\int \frac{7}{1+3t} dt$

(e) $\int \frac{1}{1+9x^2} dx$

(f) $\int (1+x)^{100} dx$

(g) $\int \sqrt[3]{1-2x} dx$