31.1

1) $\int_2^7 f(x)dx = \int_2^5 f(x)dx + \int_5^7 f(x)dx$

2) $\int_3^{10} f(x)dx = \int_3^{16} f(x)dx + \int_{16}^{10} f(x)dx$

3) $\int_6^4 f(x)dx = \int_6^9 f(x)dx + \int_9^4 f(x)dx$

4) $\int_{-5}^{11} f(x)dx = \int_{-5}^4 f(x)dx + \int_4^{11} f(x)dx$

5) $\int_6^{12} f(x)dx = \int_6^9 f(x)dx + \int_9^{12} f(x)dx$

6) $\int_8^4 f(x)dx = \int_8^5 f(x)dx + \int_5^{-3} f(x)dx + \int_{-3}^4 f(x)dx$

7) $\int_{-7}^{18} f(x)dx = \int_{-7}^8 f(x)dx + \int_8^6 f(x)dx + \int_6^{18} f(x)dx$

8) $\int_{-6}^{10} f(x)dx = \int_{-6}^2 f(x)dx + \int_2^7 f(x)dx + \int_7^{10} f(x)dx$

9) $\int_9^0 f(x)dx = \int_9^{10} f(x)dx + \int_{10}^{12} f(x)dx + \int_{12}^0 f(x)dx$

10) $\int_{-2}^8 f(x)dx = \int_{-2}^7 f(x)dx + \int_7^4 f(x)dx + \int_4^8 f(x)dx$

11) $\int_8^{11} f(x)dx = \int_8^9 f(x)dx + \int_9^7 f(x)dx + \int_7^{11} f(x)dx$

12) $\int_4^2 f(x)dx + \int_2^8 f(x)dx + \int_8^4 f(x)dx = 0$