

Chapter 5

- 5.1. (a) 478
(b) 743
(c) 2025
(d) 41567
(e) 61680

- 5.2. (a) 478
(b) -280
(c) -1

- 5.3. (a) 478
(b) -281
(c) -2

5.4. The numbers are represented as follows:

Decimal	Sign and Magnitude	1's Complement	2's Complement
73	000001001001	000001001001	000001001001
1906	011101110010	011101110010	011101110010
-95	100001011111	111110100000	111110100001
-1630	111001011110	100110100001	100110100010

5.10.

$$x_k \oplus y_k \oplus s_k = c_k$$

5.18.

$$y_0 = \overline{x_0}$$

$$y_1 = x_1$$

$$y_2 = \overline{x_2}x_1 + x_2\overline{x_1}$$

$$y_3 = \overline{x_3}\overline{x_2}\overline{x_1}$$

5.21.

