

$$(5, 5) \text{ to } (13, 9)$$

$$x_a \text{ } y_a \quad x_b \text{ } y_b$$

$$\Delta x = x_b - x_a$$

$$= 13 - 5 = 8$$

$$\Delta y = y_b - y_a$$

$$= 9 - 5 = 4$$

$$P_0 = 2\Delta y - \Delta x$$

$$= 2 \times 4 - 8$$

$$= 8 - 8$$

$$P_0 = 0$$

$$P_1 = P_k + 2\Delta y - 2\Delta x$$

$$= 0 + 2 \times 4 - 2 \times 8$$

$$= 0 + 8 - 16$$

$$P_1 = -8$$

$$P_2 = P_k + 2\Delta y$$

$$= -8 + 2 \times 4$$

$$= \cancel{-8} + \cancel{8} = 0 \quad P_2 = 0$$

$$\begin{aligned}
 P_3 &= P_1 + 2\Delta y - 2\Delta x \\
 &= 0 + 2 \times 4 - 2 \times 8 \\
 &= 0 + 8 - 16
 \end{aligned}$$

$$P_3 = -8$$

$$\begin{aligned}
 P_4 &= P_3 + 2\Delta y \\
 &= -8 + 2 \times 4 \\
 &= -8 + 8
 \end{aligned}$$

$$P_4 = 0$$

$$\begin{aligned}
 P_5 &= P_4 + 2\Delta y - 2\Delta x \\
 &= 0 + 2 \times 4 - 2 \times 8 \\
 &= 0 + 8 - 16
 \end{aligned}$$

$$P_5 = -8$$

$$\begin{aligned}
 P_6 &= P_5 + 2\Delta y \\
 &= -8 + 2 \times 4 \\
 &= -8 + 8
 \end{aligned}$$

$$P_6 = 0$$

$$\begin{aligned}
 P_7 &= P_6 + 2\Delta y - 2\Delta x \\
 &= 0 + 2 \times 4 - 2 \times 8 \\
 &= 0 + 8 - 16
 \end{aligned}$$

$$P_7 = -8$$

| K | P_k | x_k^s, y_k^s |
|---|------------|----------------|
| 0 | $P_0 = 0$ | 6, 6 |
| 1 | $P_1 = -8$ | 7, 6 |
| 2 | $P_2 = 0$ | 8, 7 |
| 3 | $P_3 = -8$ | 9, 7 |
| 4 | $P_4 = 0$ | 10, 8 |
| 5 | $P_5 = -8$ | 11, 8 |
| 6 | $P_6 = 0$ | 12, 9 |
| 7 | $P_7 = -8$ | <u>13, 9</u> |

