$$S = \alpha \overline{1} + b = \alpha_0 g_0(x_k) + \alpha_1 g_1(x_k)$$

$$E(\alpha_0, \alpha_1) = \sum_{k=0}^{7} (y_k - \alpha_0 g_0 - \alpha_1 g_1)^2$$

$$E'(\alpha_k) = \sum_{k=0}^{7} (y_k - \alpha_0 g_0 - \alpha_1 g_1) g_0 = 0$$

$$\sum_{k=0}^{7} (y_k - \alpha_0 g_0 - \alpha_1 g_1) g_0 = 0$$

$$\sum_{k=0}^{7} (y_k - \alpha_0 g_0 - \alpha_1 g_1) g_0 = 0$$

$$\sum_{k=0}^{7} (y_k - \alpha_0 g_0 g_0 - \alpha_1 g_1) g_0 = 0$$

$$\sum_{k=0}^{7} (y_k - \alpha_0 g_0 g_0 - \alpha_1 g_1 g_0) = 0$$

$$\sum_{k=0}^{7} (y_k - \alpha_0 g_0 g_0) - \alpha_1 g_1 g_0 = 0$$

$$\sum_{k=0}^{7} (y_k - \alpha_0 g_0 g_0) + \alpha_1 g_1 g_0 = 0$$

$$\sum_{k=0}^{7} (y_k - \alpha_0 g_0 g_0) + \alpha_1 g_1 g_0 = 0$$

$$\sum_{k=0}^{7} (y_k - \alpha_0 g_0 g_0) + \alpha_1 g_1 g_0 = 0$$