$$g(x) = f(x_i) + f(x_i, x_{i+1})(x - x_i) \quad \text{if } x \in [x_i, x_{i+1}]$$

$$[x_0, x_1] = g_1(x) = 1.2 + \frac{1.6 - 1.2}{1}(x) = 1.2 + 0.4x$$

$$[x_1, x_2] = g_2(x) = 1.6 + \frac{6.6 - 1.6}{2}(x - 1) = 1.6 + (-1)(x - 1)$$

= $2.6 - x$

$$(2.1, x_2) = 9_2(x) = 1.6 + \frac{1}{2}(x = 1) = 1.6 + \frac{1}{2}(x = 1)$$

$$= 2.6 - x$$

$$[x_2, x_3] = g_3(x) = 0.6 + \frac{-6.6 - 0.6}{2}(x - 2) = 0.6 - 1.2(x - 2)$$

= 3 - 1.2x

$$[x_3, x_4]: g_4(x) = -0.6 + \frac{1+6.6}{2}(x-3) = -0.6 + 1.6(x-3)$$

$$[x_3, x_4]: g_4(x) = -0.6 + \frac{1+0.6}{2}(x-3) = -0.6 + 1.6(x-3)$$

= -5.4 + 1.6x