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## INTERPOLATION

$$S_0(0) = 0$$

$$S_0(1/2) = 1$$

$$S_1(1/2) = 1$$

$$S_1(1) = 0$$

$$S_0(0) = 0 + 0 = 0$$

$$S_0(1/2) = -4\left(\frac{1}{2}\right)^3 + 3 \cdot \frac{1}{2}$$

$$= -\frac{1}{2} + \frac{3}{2} = 1$$

$$S_1(1/2) = -4\left(1 - \frac{1}{2}\right)^3 + 3\left(1 - \frac{1}{2}\right)$$

$$= -\frac{1}{2} + \frac{3}{2} = 1$$

$$S_1(1) = -4(1-1)^3 + 3(1-1) = 0$$