$$\frac{1 \times 2^{h}}{2} + \frac{2 \times 2^{h^{2}}}{2^{h}} + \frac{3 \times 2^{h^{2}}}{2^{h}} + \frac{3 \times 2^{h^{2}}}{2^{h}} + \frac{5 \times 2^{h}}{2^{h}} + \dots + \frac{h \times 2^{h}}{2^{h}} = \underbrace{1.2^{h}}_{2^{h}} + \underbrace{\frac{1}{2} \cdot 2^{h}}_{2^{h}} + \underbrace{\frac{1}{2} \cdot 2^{h}}_{2^$$

xh