$$1+x+x^{2}+x^{3}+\cdots+x^{n}=\frac{1-x^{n+1}}{1-x}$$

$$1=\frac{1-x}{1-x}$$
Supposte le forgonière vera per n' dimertianele per n' hill
$$1=\frac{1-x}{1-x}$$

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$$2+2+2^{3}+\cdots+2^{n}=2(2^{n}-1)$$
Base ind. $n=1$

$$2=2(2-1)$$

$$1p ind: 2+2+2^{3}+\cdots+2^{n}=2(2^{n}-1)$$

$$2en: 2+2+2^{3}+\cdots+2^{n}=2(2^{n}-1)$$

$$2(2^{n}-1)+2^{n}+2^{n}=2(2^{n}-1)$$

$$2(2^{n}-1)+2^{n}+1=2^{n}-2+2^{n}=2$$

$$=2\cdot 2^{n}+1-2=2(2^{n}-1)$$

$$1+3+5+7+\cdots+19$$

$$S_{10} = 100 \frac{1+19}{2} = 100$$

$$1+3+5+7+\cdots+(2n-1)$$

$$S_n = n \frac{1/42n-1}{2} = n^2$$

