$$A = 1 + 2 + 3 + \cdots + 100$$

$$A = 100 + 99 + 98 + \cdots + 100$$

$$2A = 101 + 101 + 101 + \cdots + 101 = 100 \cdot 101$$

$$\mathbb{A} = \frac{1}{2} 100.101$$

$$S = 1 + x + x^2 + \cdots + x^n$$

$$x + x^2 + \cdots + x^n + x^{n+1}$$

$$S - x S = 1 - x^{n+1}$$

$$5 = \frac{1 - x^{n+1}}{1 - x} = \frac{x^{n+1}}{x - 1}$$

$$|+x+x^2+\cdots+x^2| = \frac{|-x^{r+1}|}{|-x|}$$