RB's Ten Favorite Math Formula How Many Can **YOU** Identify?

$$F_n = \sum_{k=0}^n \binom{n-k}{k}$$

(ix)
$$W \equiv k + \lfloor 2.6m - .2 \rfloor - 2C + Y + \lfloor \frac{Y}{4} \rfloor + \lfloor \frac{C}{4} \rfloor \pmod{7}$$

(viii)
$$f_{n,k} = \binom{n}{k} 2^{n-k}$$

(vii)
$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

$$(vi) V - E + F = 2$$

(v)
$$M_n = 2n! \sum_{k=0}^{n} (-1)^k \frac{2n}{2n-k} {2n-k \choose k} (n-k)!$$

(iv)
$$\sum_{n=1}^{\infty} \frac{1}{n^s} = \prod_{p \text{ prime}} \frac{1}{1 - p^{-s}}$$

(iii)
$$\prod_{i=1}^{\infty} (1+x^i) = \prod_{i=1}^{\infty} \left(\frac{1}{1-x^{2i-1}}\right)$$

$$\left(\frac{m}{n}\right)\left(\frac{n}{m}\right) = (-1)^{(m-1)(n-1)/4}$$

(i)
$$e^{i\pi} + 1 = 0$$