CamaradaNewton

Acezurita

22/6/2022

Producto notable

Su fórmula es:

$$(a+b)^2 = a^2 + 2ab + b^2$$

```r
binomio2 <- function(a,b){
  a^2+(2*a*b)+b^2
}
binomio2(1,2)
```

```
## [1] 9
```

Binomio de newton

Su fórmula es:

$$(a+b)^n = \sum_{k=0}^{n} \binom{n}{k} \cdot a^{n-k} \cdot b^k = \binom{n}{k} \cdot a^n \cdot b^0 + ... \binom{n}{n} \cdot a^0 \cdot b^n$$

```r
binNew <- function(a,b,n){
cumsum(choose(n,(0:n))*a^(n-(0:n))*b^(0:n))
}
binNew(2,1,2)
```

```
## [1] 4 8 9
```