Binomio de Newton

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Producto notable

La formula del producto notable es:
$$(a+b)^2 = a^2 + 2ab + b^2$$

Funcion con R

```r
binomiodenewton2 = function(a,b){
  a^2+2*a*b+b^2
}
binomiodenewton2(1,2)
```

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

BINOMIO DE NEWTON

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

Funcion con R

```r
binomiodenewton = function(a,b,n){
  cumsum(choose(n,(0:n))*a^{n-(0:n)}*b^(0:n))[n+1]
}
binomiodenewton(2,1,2)
```

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