

```
In[ ]:= bh[y_, h_, n_] := Product[y - k h, {k, 0, n - 1}]
```

```
In[ ]:= rhs[x_, b_, nn_] := Sum[Binomial[nn, j] bh[b, h, nn - j] bh[x, h, j], {j, 0, nn}]
```

```
In[ ]:= rhs[x, b, 4] // Expand
```

```
Out[ ]:= 
$$b^4 - 6 b^3 h + 11 b^2 h^2 - 6 b h^3 + 4 b^3 x - 18 b^2 h x + 22 b h^2 x - 6 h^3 x + 6 b^2 x^2 - 18 b h x^2 + 11 h^2 x^2 + 4 b x^3 - 6 h x^3 + x^4$$

```

```
In[ ]:= bh[x + b, h, 4] // Expand
```

```
Out[ ]:= 
$$b^4 - 6 b^3 h + 11 b^2 h^2 - 6 b h^3 + 4 b^3 x - 18 b^2 h x + 22 b h^2 x - 6 h^3 x + 6 b^2 x^2 - 18 b h x^2 + 11 h^2 x^2 + 4 b x^3 - 6 h x^3 + x^4$$

```