

**Expression
Layer**

$$P_n^{(\alpha, \beta)}(z) = \frac{(\alpha + 1)_n}{n!} {}_2F_1\left(-n, 1 + \alpha + \beta + n; \alpha + 1; \frac{1}{2}(1 - z)\right)$$

**Function
Layer**

$$P_n^{(\alpha, \beta)}(z)$$

$$n!$$

$$(\alpha + 1)_n$$

$${}_2F_1\left(-n, 1 + \alpha + \beta + n; \alpha + 1; \frac{1}{2}(1 - z)\right)$$

**Arithmetic
Layer**

$$\alpha + 1$$

$$-n$$

$$1 + \alpha + \beta + n$$

$$\frac{1}{2}(1 - z)$$

**Identifier
Layer**

n

α

β

z

1

2