

$$C(1,0)=1.$$

$$C(2,0)=-\frac{1}{2\alpha+1}.$$

$$C(2,1)=\frac{2(\alpha+1)}{2\alpha+1}.$$

$$C(3,0)=-\frac{3}{2\alpha+1}.$$

$$C(3,1)=\frac{2(\alpha+2)}{2\alpha+1}.$$

$$C(4,0)=\frac{3}{(2\alpha+1)(2\alpha+3)}.$$

$$C(4,1)=-\frac{12(\alpha+2)}{(2\alpha+1)(2\alpha+3)}.$$

$$C(4,2)=\frac{4(\alpha+2)(\alpha+3)}{(2\alpha+1)(2\alpha+3)}.$$

$$C(5,0)=\frac{15}{(2\alpha+1)(2\alpha+3)}.$$

$$C(5,1)=-\frac{20(\alpha+3)}{(2\alpha+1)(2\alpha+3)}.$$

$$C(5,2)=\frac{4(\alpha+3)(\alpha+4)}{(2\alpha+1)(2\alpha+3)}.$$

$$C(6,0)=-\frac{15}{(2\alpha+1)(2\alpha+3)(2\alpha+5)}.$$

$$C(6,1)=\frac{90(\alpha+3)}{(2\alpha+1)(2\alpha+3)(2\alpha+5)}.$$

$$C(6,2)=-\frac{60(\alpha+3)(\alpha+4)}{(2\alpha+1)(2\alpha+3)(2\alpha+5)}.$$

$$C(6,3)=\frac{8(\alpha+3)(\alpha+4)(\alpha+5)}{(2\alpha+1)(2\alpha+3)(2\alpha+5)}.$$

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$$C(n,l)=?$$