$$C_{n}^{i} = \frac{n!}{(n-i)!} = \frac{A_{n}^{i}}{i!}$$

$$A_{n}^{i} = \frac{n!}{(n-i)!} = \frac{n(n-i)(n-2)...(n-i+1)(n-i)!}{(n-i)!}$$

$$C_{n}^{i} = \frac{n!}{(n-i)!} = \frac{n!}{(n-i)!} = \frac{n(n-i)(n-2)...(n-i+1)(n-i)!}{(n-i)!}$$

$$C_{n}^{i} = \frac{n!}{(n-i)!} = \frac{n!}{(n-i)!} = \frac{n!}{(n-i)!}$$

$$C_{n}^{i} = \frac{n!}{(n-i)!} = \frac$$

$$C_{n}^{i} = C_{n-1}^{i} + C_{n-1}^{i-1}$$

$$B_{n}^{i}(t) = C_{n}^{i} t^{i} (1-t)^{n-i}$$

$$= (C_{n-1}^{i} + C_{n-1}^{i-1}) t^{i} (1-t)^{n-i}$$

$$= C_{n-1}^{i} t^{i} (1-t)^{n-i} + C_{n-1}^{i-1} t^{i} (1-t)^{n-i}$$

$$= (1-t)^{n-i} t^{i} (1-t)^{n-i} + t^{i-1} (1-t)^{n-i}$$

$$B_{i-1}^{n-1}(t)$$

$$B_{i-1}^{n-1}(t)$$