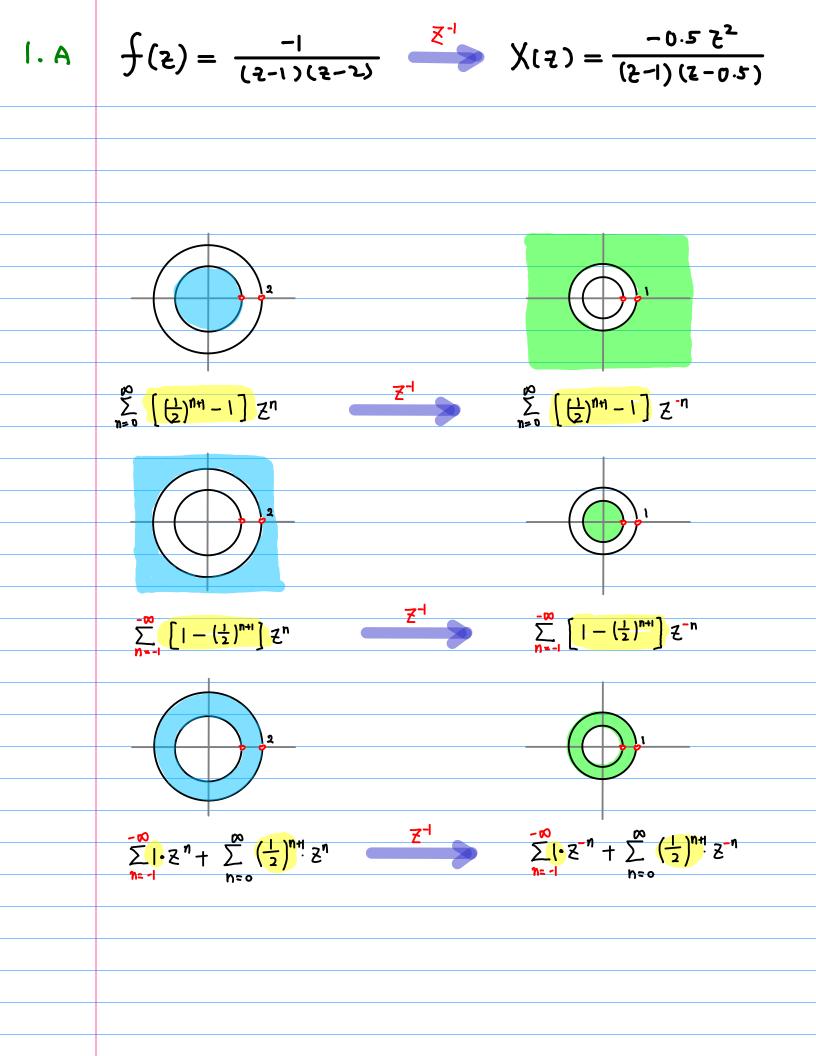
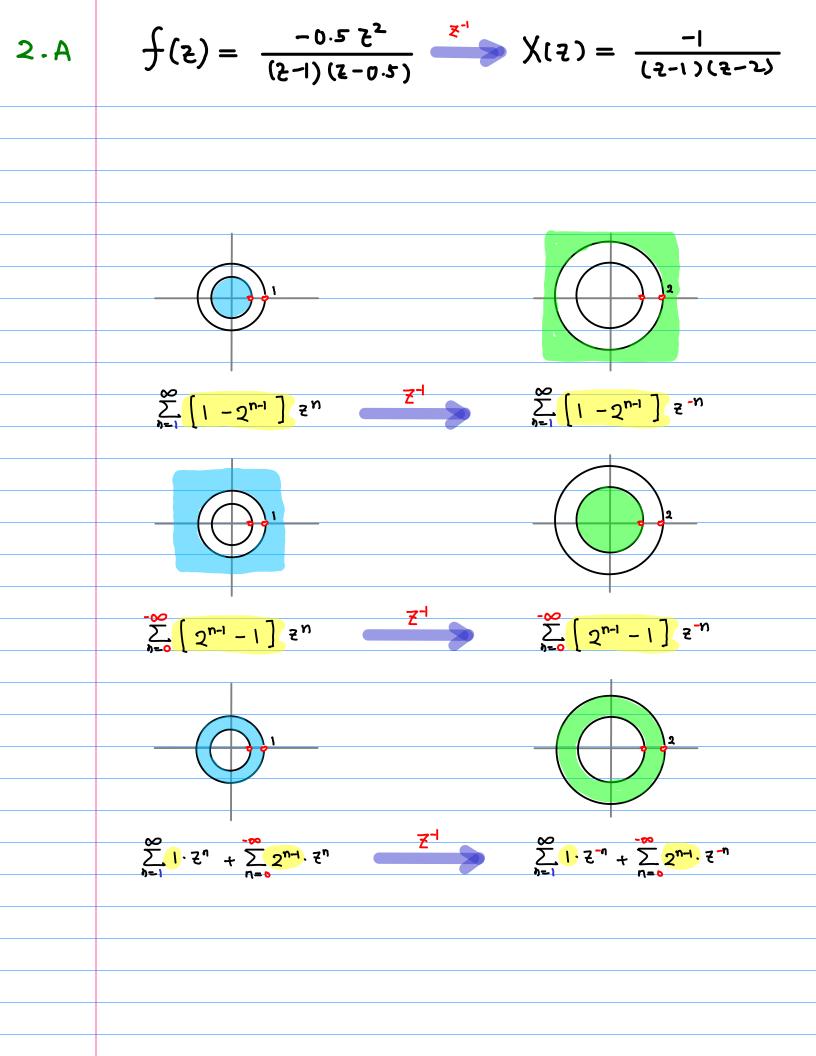
Laurent Series and z-Transform Examples case 0.A

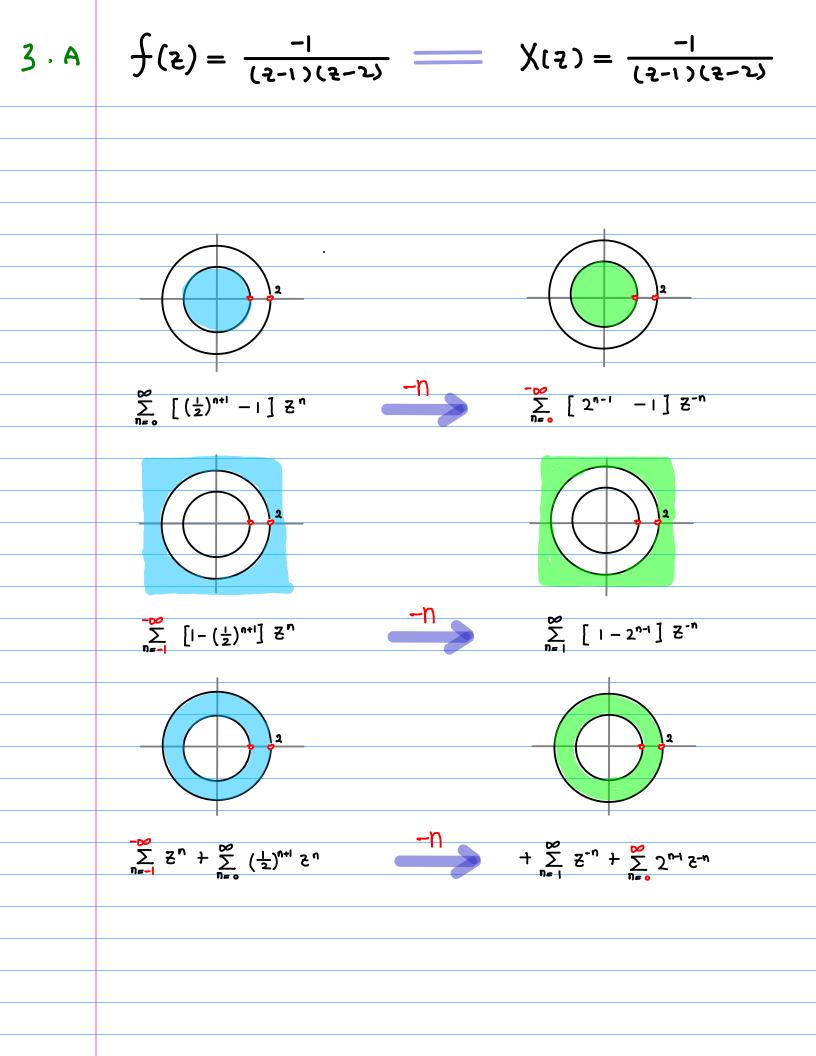
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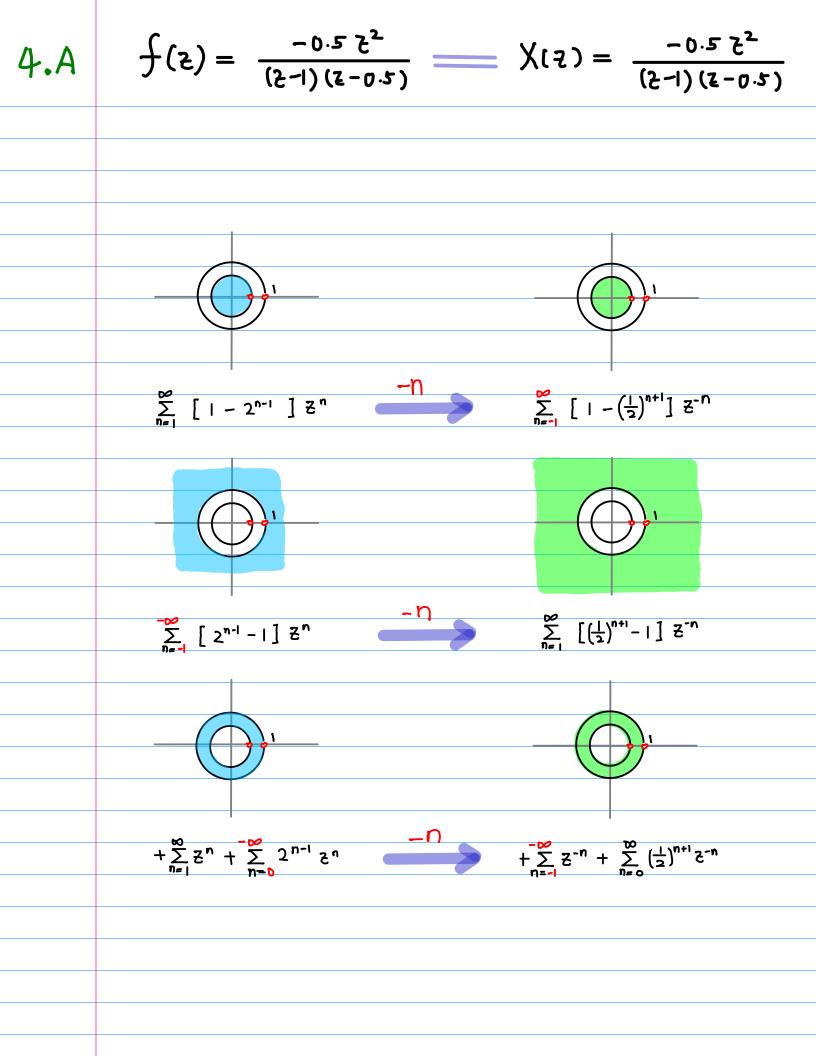
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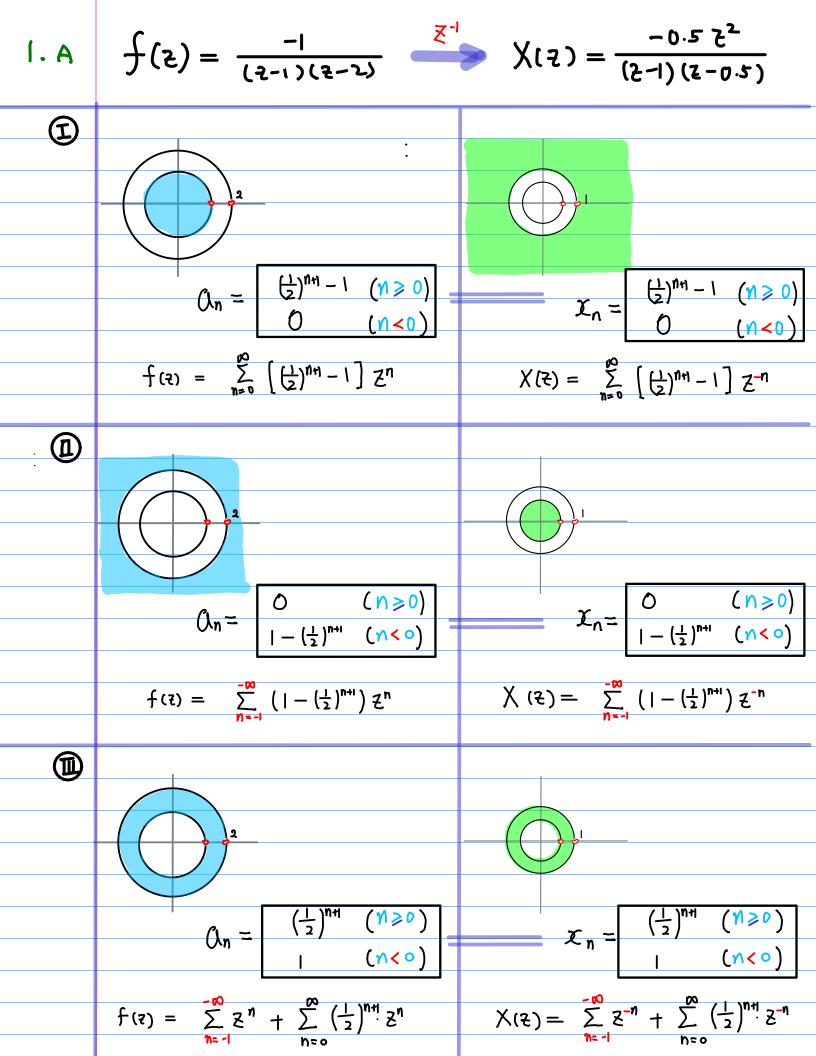
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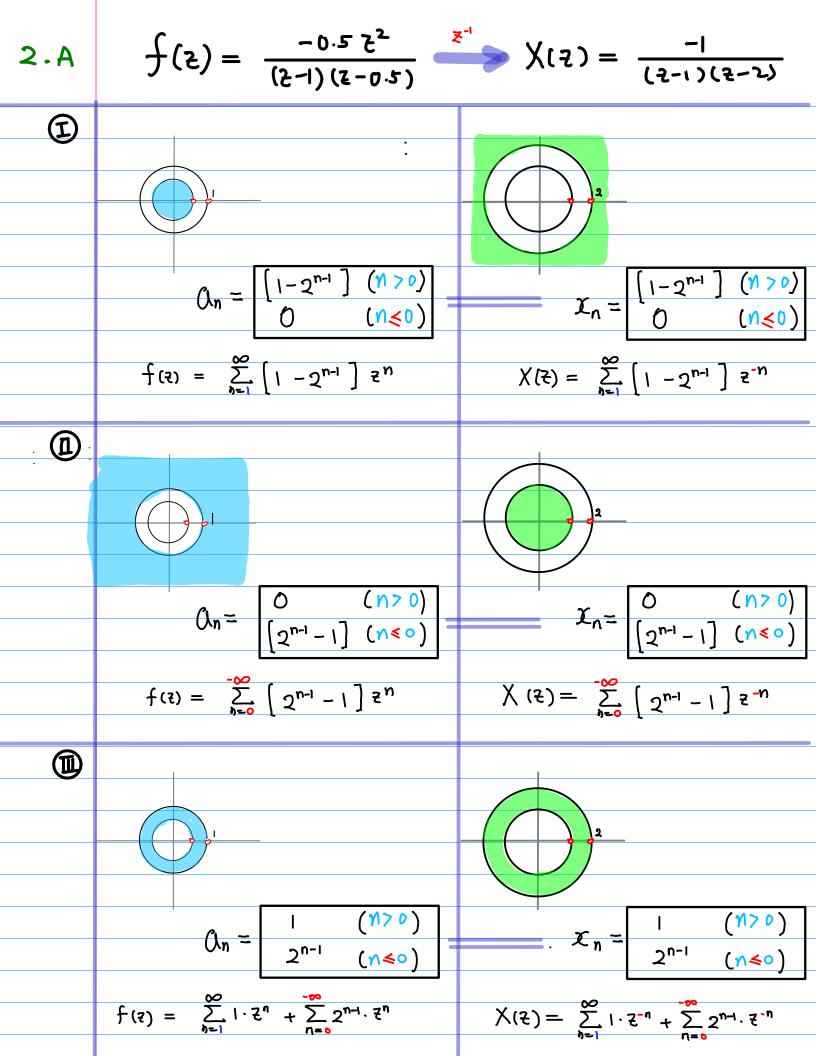


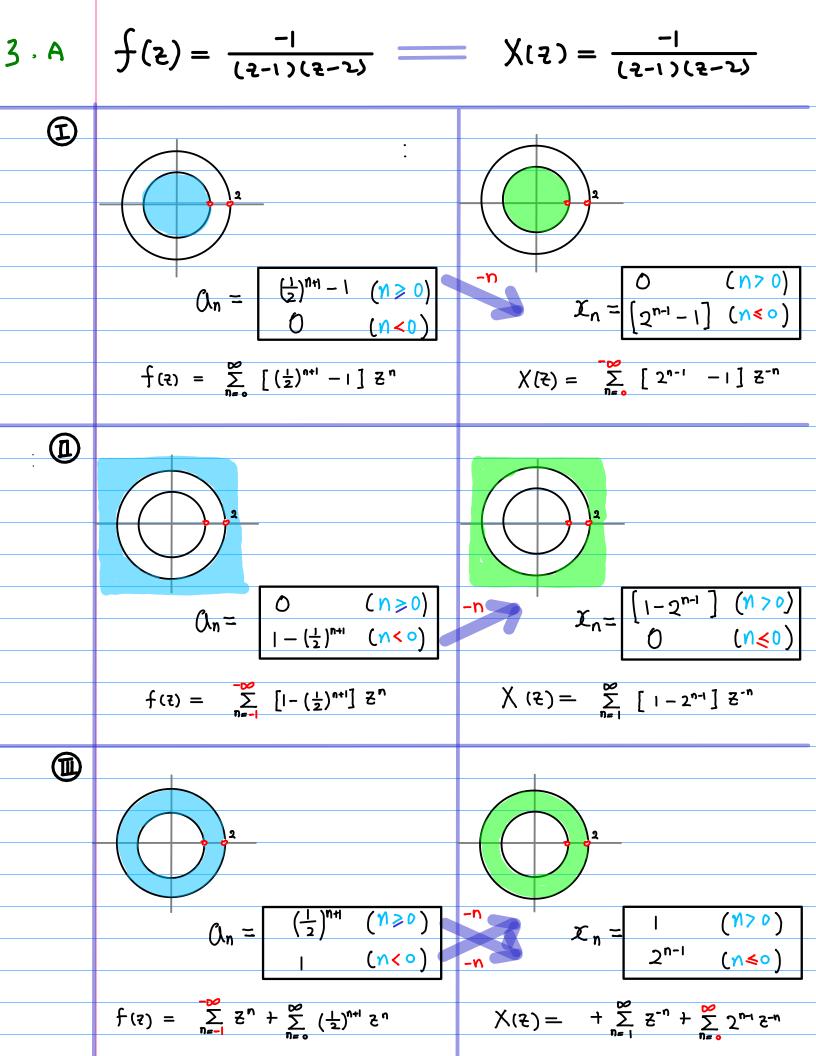


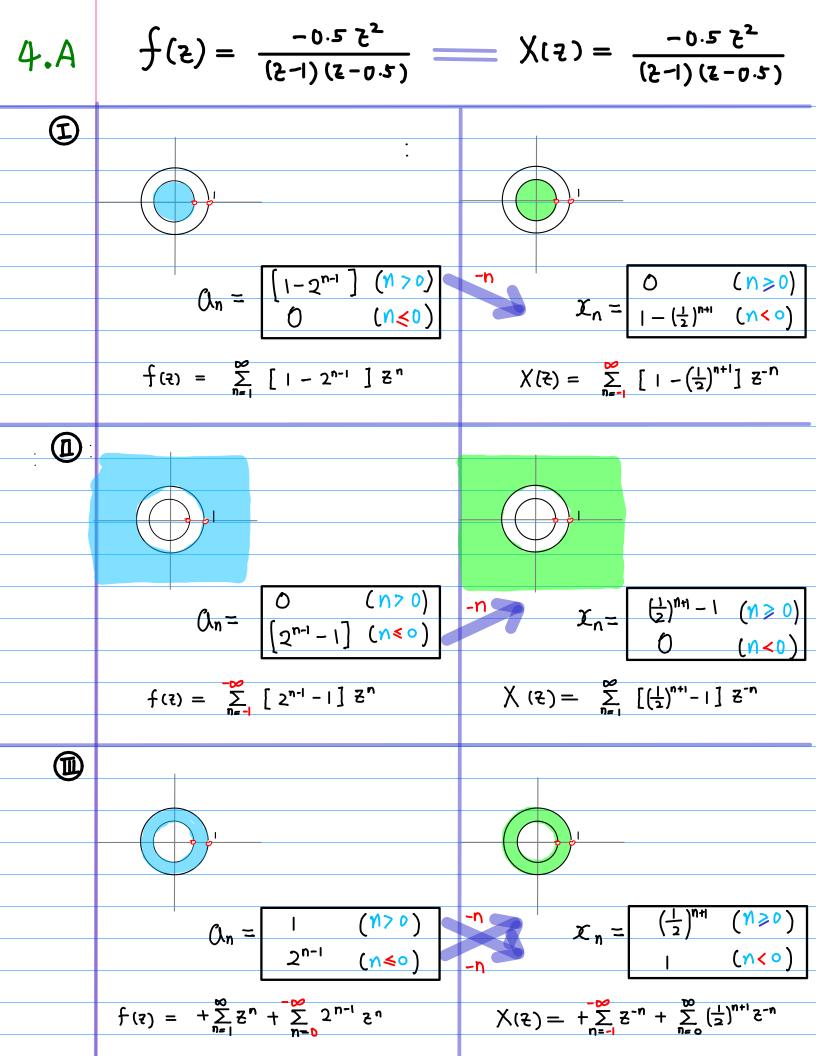


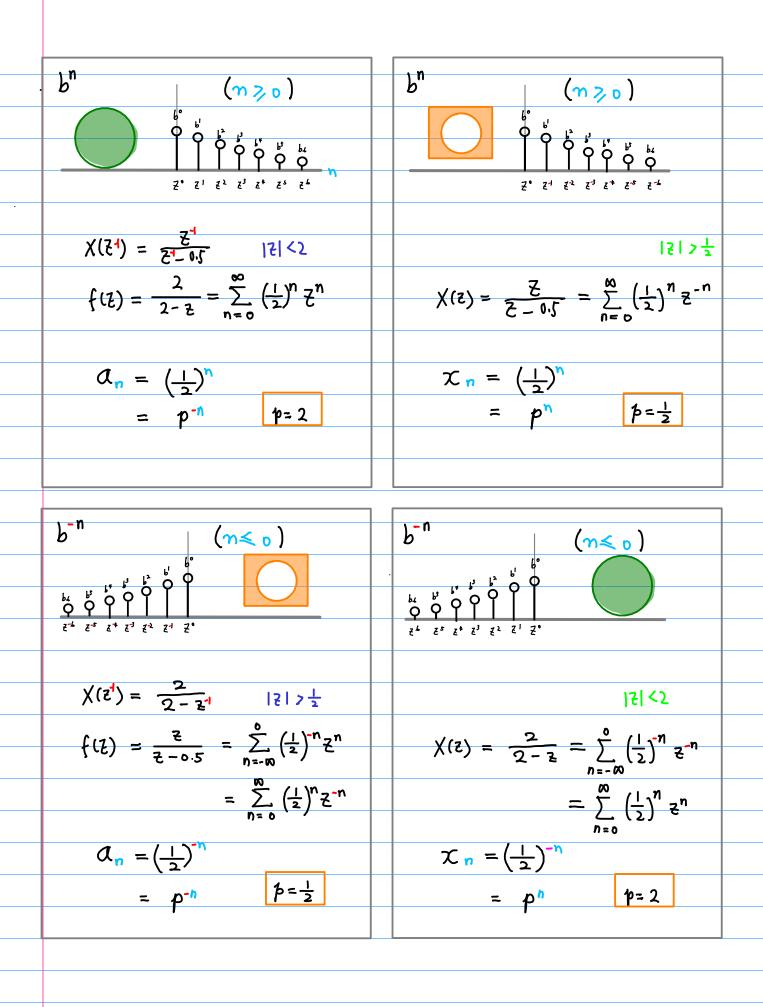


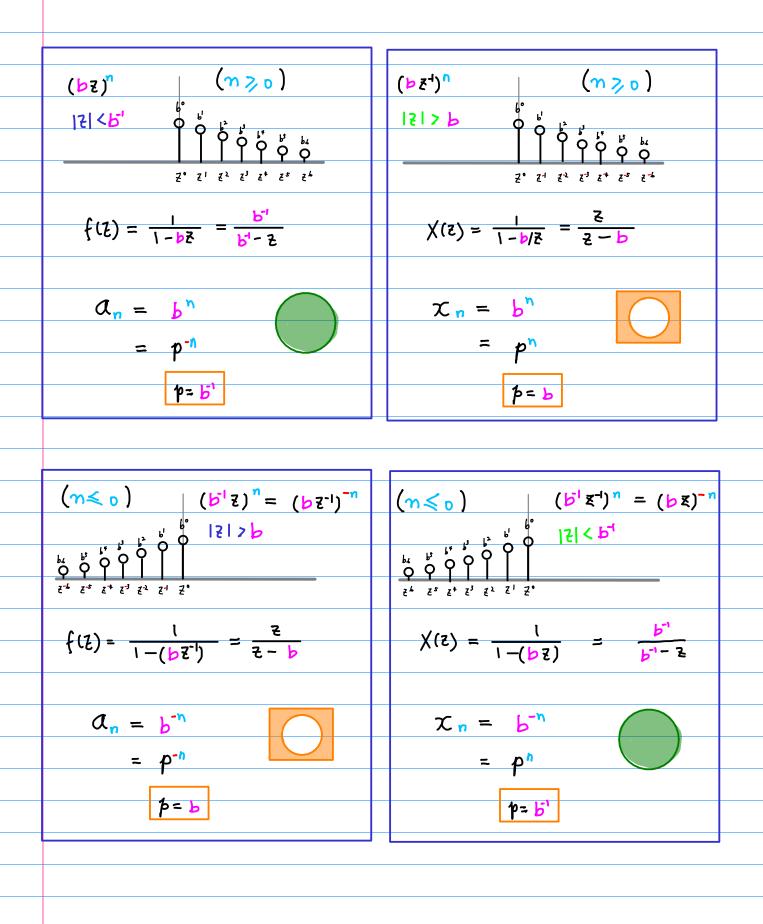


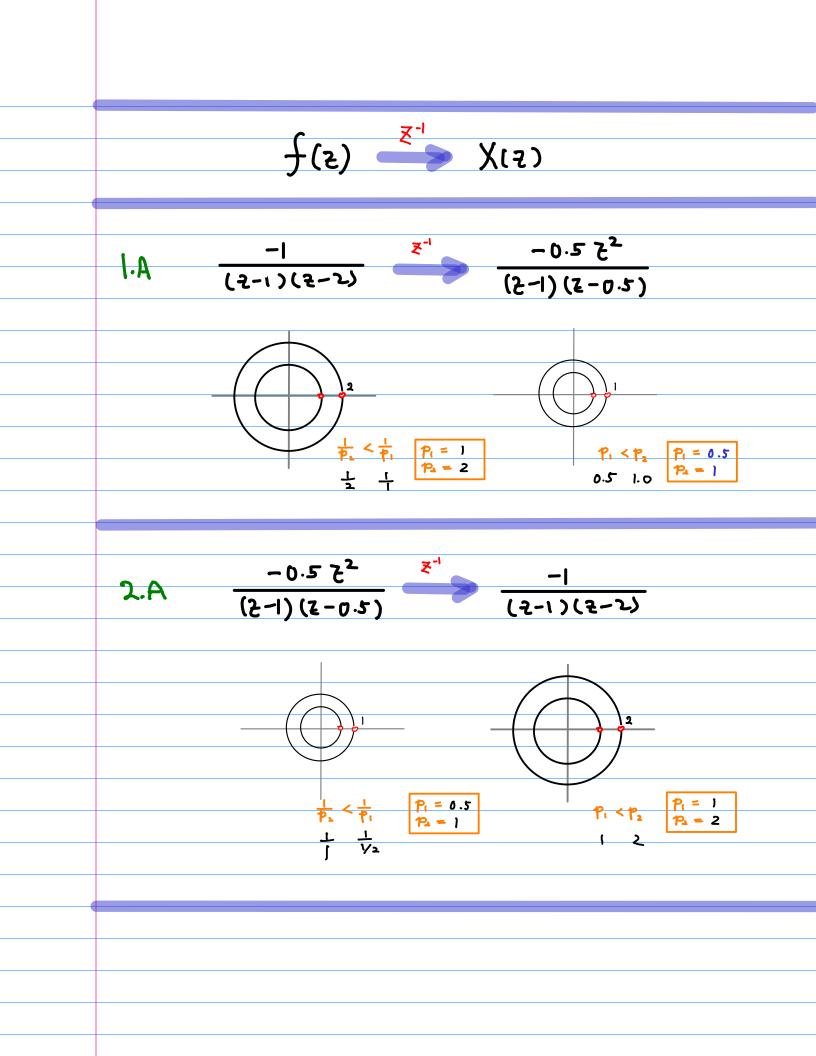


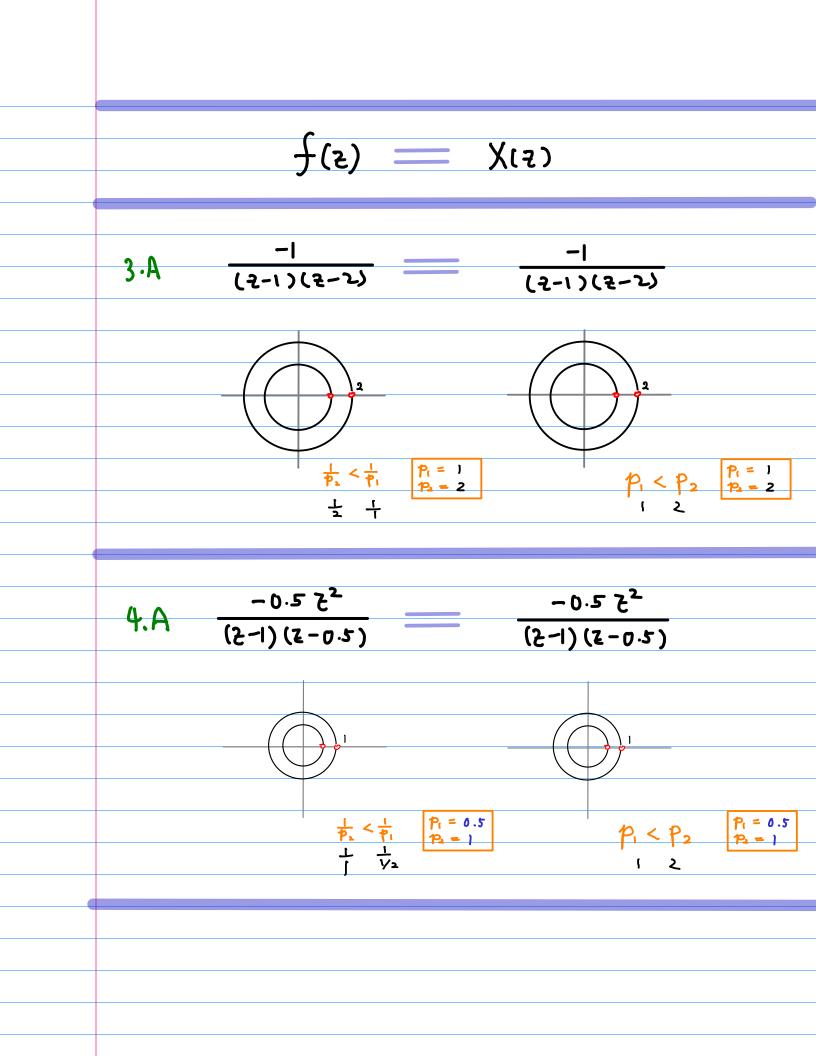


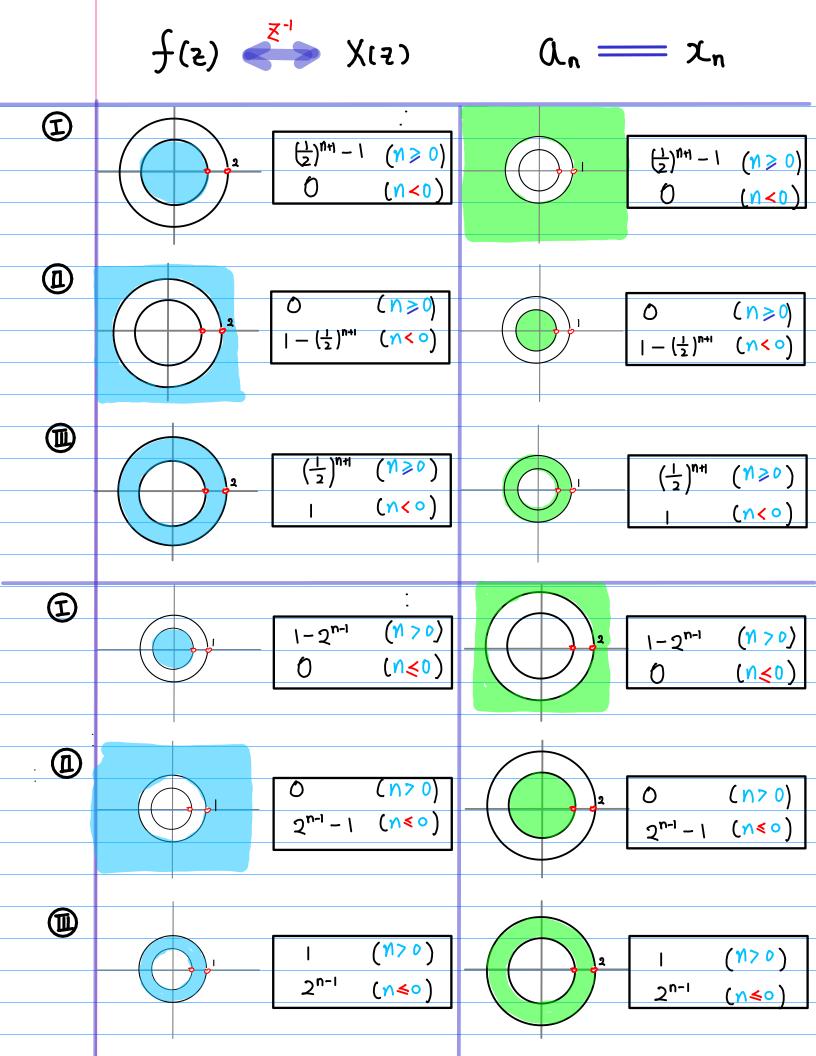


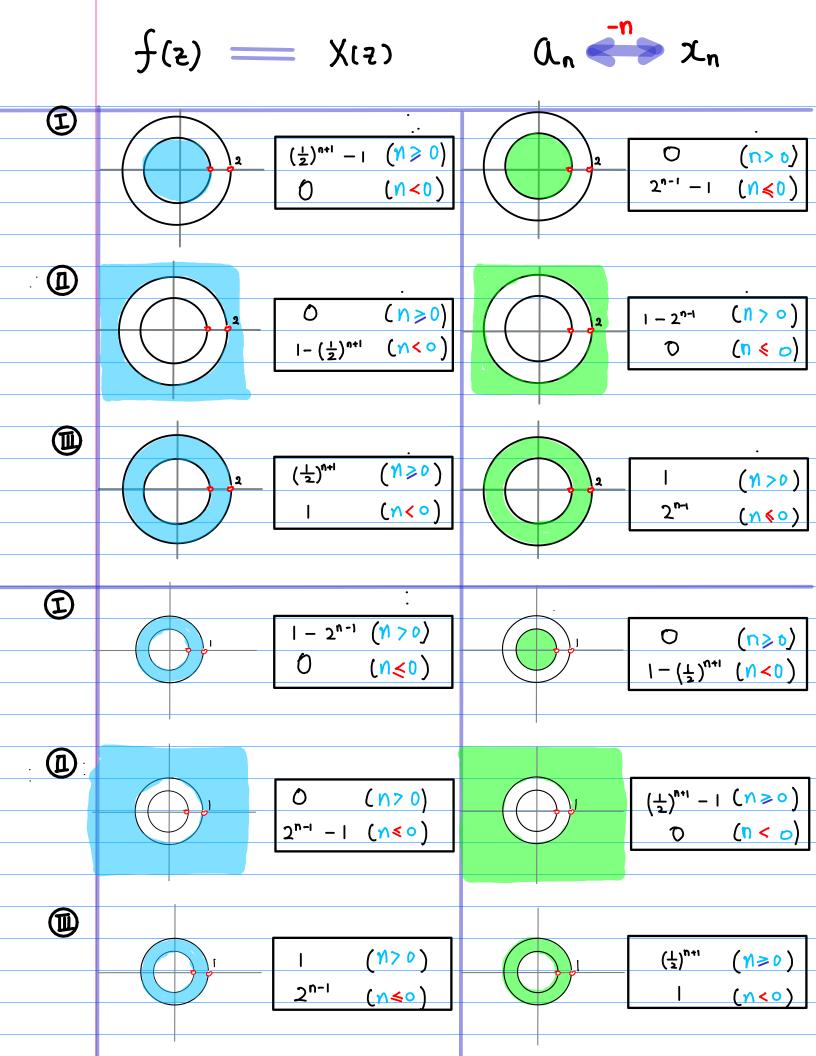


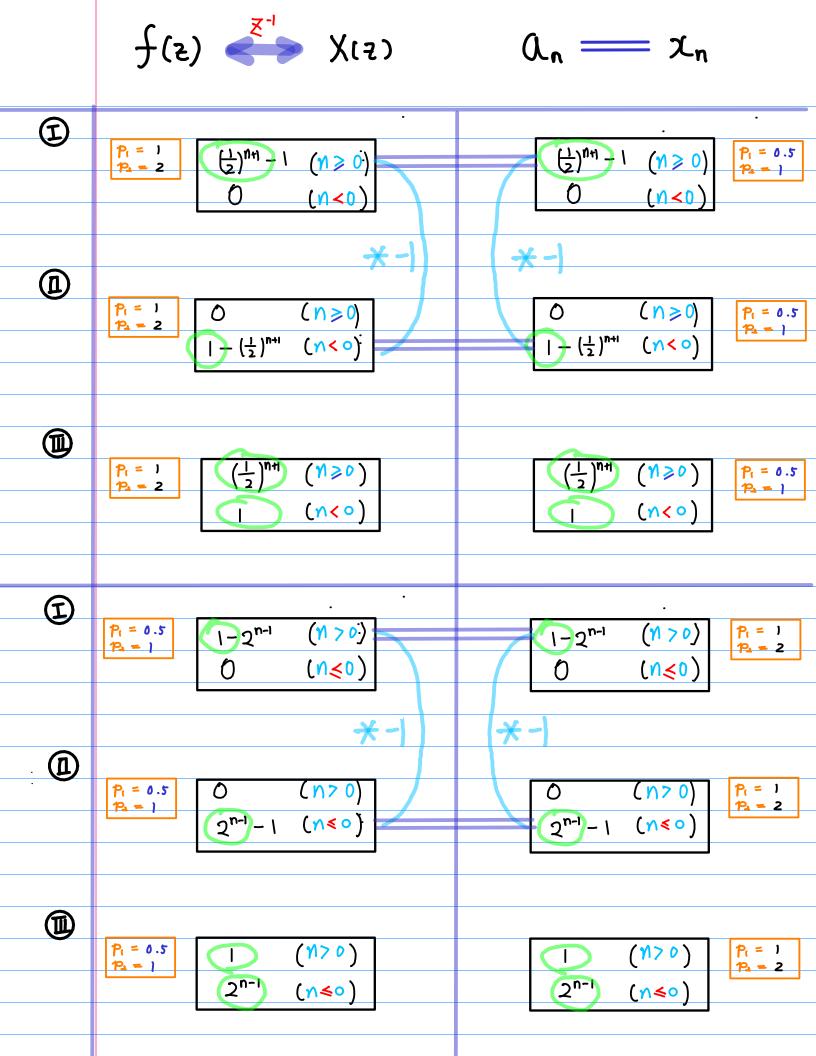


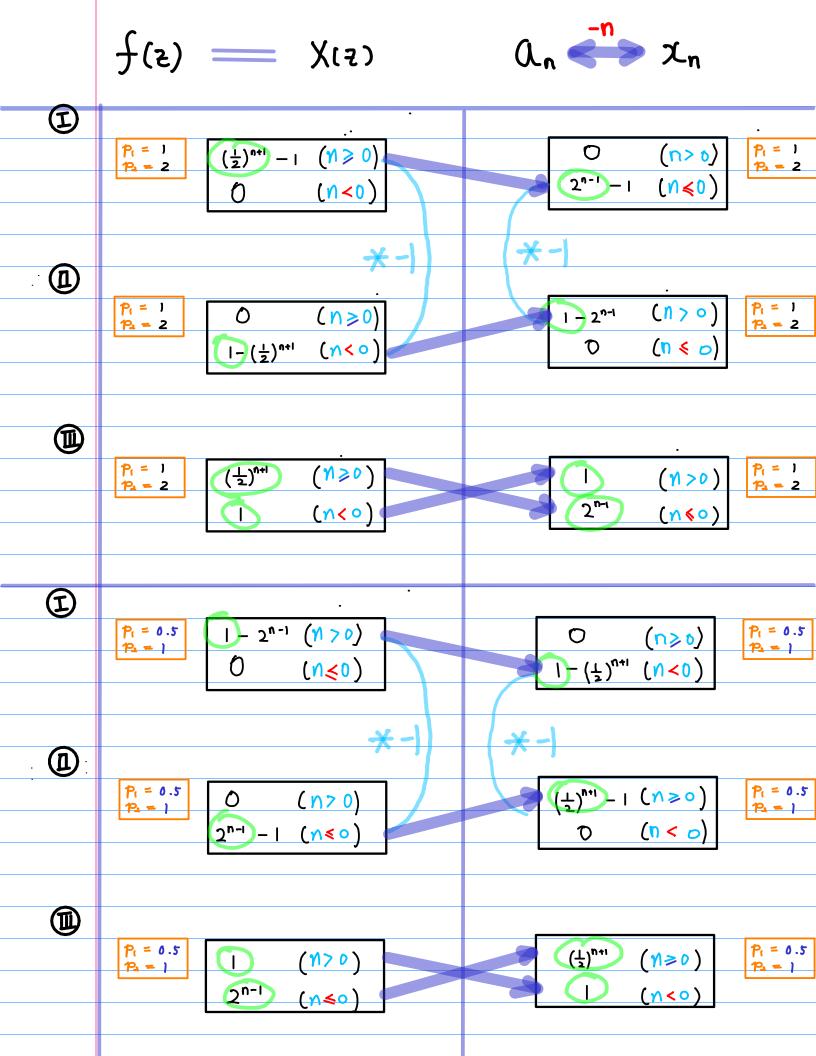






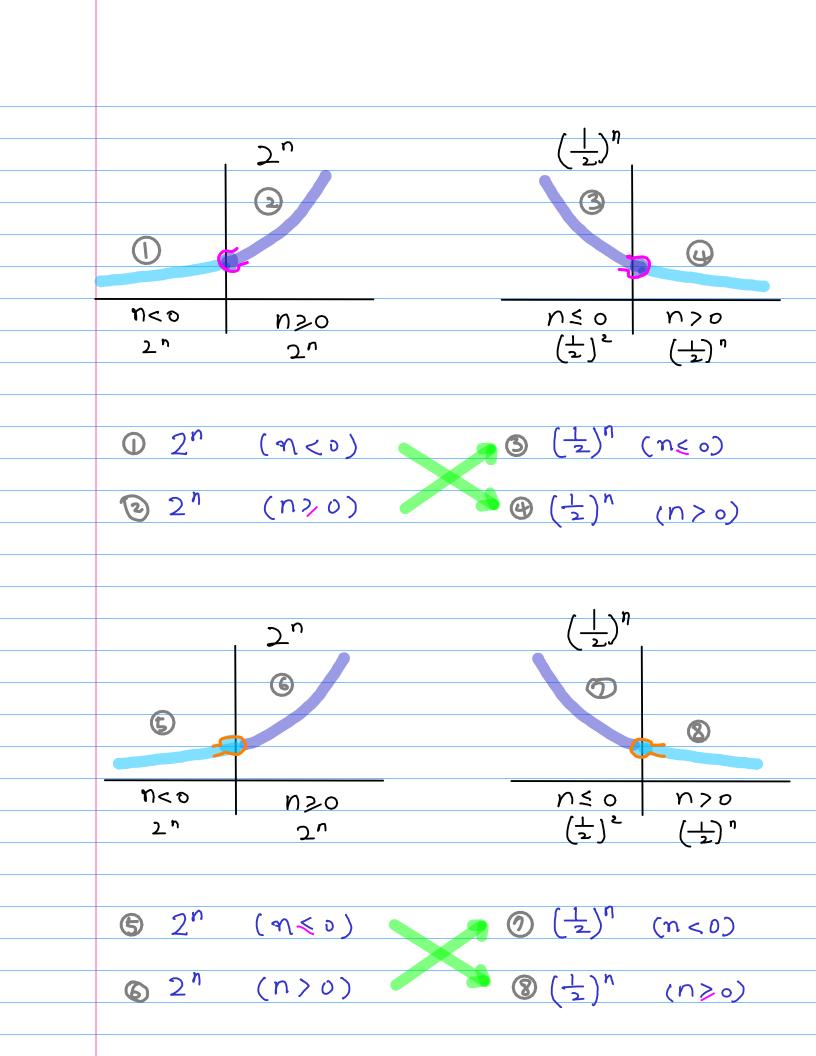






		() 0+	I .	··			r	0		$\langle n \rangle \rangle$	
				$(\mathbf{N} \ge 0)$						(<mark>n> ₀</mark>) (n≤0)	
		0		<u>(n<0</u>))			_	•		
	ή	د-	-2	-1	0	t	٢	3	ų		
	$\left(\frac{1}{2}\right)^{n+1}$	(1)-3+1	(1) ^{-2+[}	(<u>↓</u>) ^{- ・}	$\left(\frac{1}{2}\right)^{HI}$	$\left(\frac{1}{2}\right)^{l+1}$	(<u>↓</u>) ²⁺¹				
	-	(<u>+</u>)*	(<u>+</u>),	(۲)°			(±)°	(7)*	(Ţ)	•	
	2 ⁻ⁿ⁻ⁱ	22	2'	2°	2-1	٦-٢	5.,	2-*	25		
	-n	+3	+ 2	+1	D	-1	-2	-3	-4		
	2 ⁻ⁿ⁻¹	2 ^{3 1}	2 ²⁻¹	2 ⁽⁻⁾	2°1	2 ¹¹	2 <mark>-5</mark> 4	2-3-1			
n/	m	-2	-1	0	+1	+2	+3				
2 ^{n′-I}	2 ^{m-1}	2 ⁻¹¹	2*1	2 ⁰¹	2''	2 ⁴	2'	1			
		•									

	η	-3	-2	-1	O		2	3
	2 ⁿ	2 ⁻³	22	2-1	2°	2'	22	2 ³
	-η	3	2	T	0	-1	-2	-3
	2 ⁻ⁿ	2 ³	ຂ້	2'	2*	21	2-2	2 ⁻³
	rean	range						
n′ m	-n	-3	-2	-1	0	I	2	3
′ 2 ^m	2-7	2 ⁻³	2-2	21	2*	2'	້	2 ³
			•					•
		2 -		≥ 2 ²		-	2 —	$\rightarrow 2^{-2}$
		I –		» 2 ¹		-		$\longrightarrow 2^{-1}$
		0 -		≥°			> —	$\rightarrow 2^{\circ}$
		- -		> 2 ⁻¹				→ 2 ¹
		-2 -	•	→ 2 ⁻²			2 —	$\rightarrow 2^2$
			•					•
				t	he sam	e funct	rion	
	η	-3	-2	-1	O	1	2	3
	2 ⁿ	2 ⁻³	2 ⁻²	2-1	2°	2'	2°	2 ³
	η	-3	-2	-1	0	I	2	3 2 ⁻³
	2-7	2 ³	້	2'	2°	21	2 2 ⁻²	2 ⁻³
	diffe	went fi	mctions					



-n 2-1-1 2ⁿ⁻¹ = 2ⁿ⁻¹ $\left(\frac{1}{2}\right)^{n+1}$ (n < 0)(n ≥ D) - n $\left(\frac{1}{2}\right)^{n+1}$ 2 n-1 (n ≥ D) (n < 0)- n (上)ⁿ⁺¹ 2ⁿ⁻¹ (n≤0) - n (n > 0)2 n-1 (n > 0) $\left(\frac{1}{2}\right)^{n+1}$ $(n \leq 0)$ - n