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L-3		
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		Part 2:
1		
1		$x = 0$; $(x^2 + 4)y'' + y = x$
		$P(x) = \frac{0}{(x^2 + 4)} = 0$
		\ \(\gamma_{\cdot \cdot
		$Q(x) = \frac{1}{(x^2+4)} = \frac{1}{4}$
		$y = a_0 + a_1 x + a_2 x^2 + + a_n x^n + a_{n+1} x^{n+1} + a_{n+2} x^{n+2}$
		$y' = a_1 + 2a_2x + 3a_3x^4 + \dots + na_nx^{n-1} + (n+1)a_{n+1}x^n + (n+2)a_{n+2}x^{n-1} + \dots$ $y'' = 2a_2 + 6a_3x + 12a_4x^2 + \dots + (n)(n-1)a_nx^{n-2} + (n+1)(n)a_{n+1}x^{n-1} + (n+2)(n-1)a_{n+2}x^n + \dots$
		of - dug to hady to the think of the total o
		(x2+4) [2a2+6a3x+12a4x2++(n)(n-1)anxn-2+(n+1)(n)anxn-1+
		$+(n+1)(n+2)a_{n+2}x^{n}+$] + $[a_0+a_1x+a_2x^2+$
		+ anx" + any x"++ an+2 x"+2 +] = x
-		Control of the contro
		$2a_{3}x^{2} + 8a_{3} + 6a_{3}x^{3} + 24a_{3}x + 12a_{4}x^{4} + 48a_{4}x^{2} + + (n-1)(n)a_{n}x^{n} + 4(n-1)(n)a_{n}x^{n-2} + (n)(n+1)a_{n+1}x^{n+1} + 4(n)(n+1)a_{n+1}x^{n-1} + (n+1)(n+d)a_{n+2}x^{n-2} + 4(n-1)(n+1)a_{n+1}x^{n-1} + 4(n)(n+1)a_{n+1}x^{n-1} + 4(n)(n+1)a_{n+1}x^{n-1} + 4(n)(n+1)a_{n+1}x^{n-1} + 4(n+1)(n+1)a_{n+1}x^{n-1} + 4(n+1)(n+1)(n+1)a_{n+1}x^{n-1} + 4(n+1)(n+1)(n+1)(n+1)(n+1)(n+1)(n+1)(n+1)$
	+	
	+	4(n+1)(n+2)an+2xn+ a0+a,x+a2x2++anxn+an+1xn++an+22n+2x=0
		VI. I VII. I VIII. I VII. I VI
		We only care about the x" terms so here is our equation:
		(n-1)(n)an+4(n+1)(n+2)an+2+an=0
-		
•		$a_{n+2} = \frac{-(n^2 - n + 1) a_n}{4(n+1)(n+2)}$
	_	$4(n+1)(n+2)$ $n=4$, $a_0=-\frac{13}{120}a_4=-\frac{13}{15360}a_0$
	0	$n=0$, $\alpha_2=-\frac{1}{108}\alpha_5=-$
1		n=1, a= -1/24 a1 n=6, ag= -31/224 a6 = 403/3440640 a0
		$n=2$, $\alpha_4=-\frac{3}{48}\alpha_2=\frac{1}{28}\alpha_0$ $n=7$, $\alpha_9=-\frac{43}{288}\alpha_7=\frac{30}{44}\frac{1}{23680}\alpha_1$
		n=3, a5=-780 a3= 7,920 a1 n=8, a10=-57360 a6=-7657412876800 a0
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