

	linear homogeneous
	U .
	du + P(x) y =0
*	linear means both (30) and (y) are taken to the power of 1.
	the power of 1.
*	homogenous means the right had side is equal to zero.
- (to zero.
+	Thora (d. a.a.) of a. b.
+	These 'types' of equations are very important but cre really sist separable equations.
1	
	$\frac{dy}{dx} = -P(x)y$
_	$\int \frac{dy}{y} = -\left(P(x)dx\right)$
+	
+	Iny = - SP(x)dx +C
+	$y = e^{-SP(x)cbx} + e^{-SP(x)cbx}$ $y = Ae^{-SP(x)cbx}$
+	11 - Ao-Sparich
1	9-11
	Linear inhomogeneous < r.h. 8 70.
	$\frac{dy}{dx} + P(x)y = Q(x)$
1	25 23 19 3= 1949 - 1967 - 1
+	We cannot use separation to solve this.
+	
+	to solve this we can use our answer to our
+	homogenous ax
+	$y = e^{-Spanda} $ $(3 = 1 \omega hen)$
+	0 = 0

